



ROYAL OBSERVATORY, HELWAN

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METEOROLOGICAL REPORT FOR THE YEAR 1944

Published under the Direction of

M. R. MADWAR, PH.D., F.R.A.S., F.R.S.E.
Director of the Royal Observatory, Helwan

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METEOROLOGICAL REPORT

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INTRODUCTION

This report contains the observations made at Royal Observatory, Helwan, which is the first order station for Egypt. They are presented in the same manner as for the former years.

The instruments used in the observatory for recording the various elements have been as follows:—

Pressure.—A Sprung-Fuess barograph, scale value 5 mms. = 1 mm. of mercury, standardized by comparison with a Fuess station barometer which has itself been compared with a normal barometer. A Richard self-recording barograph is used in addition to the Dines self-recording barometer in case of failure of the Sprung-Fuess.

Temperature and Humidity.—Richard thermographs with scales of 5 mms. to 1 °C. separate instruments being used as dry bulb and wet bulb, controlled by eye readings in the screen taken five times a day.

Actinometric Observations.—Readings are daily made at 14 h. with bright and black bulbs in vacue.

Wind.—A Kew pattern 9-inch cup anemograph, the height of the cups being twenty metres above the ground level. The factor 2·2 is used in the reduction. A Dines anemobiograph is used to record the wind directions and the instantaneous wind velocity in case of failure of either the Kew anemograph, or the old Dines anemograph which is only used for recording the instantaneous wind velocity.

Observations of upper wind are made by means of pilot balloons. Generally a single theodolite is used and a uniform rate of rise is assumed, the formula employed being:—

$$V = 84 \frac{L^{\frac{1}{2}}}{(L+W)^{\frac{1}{3}}}$$

where W = weight in grammes, and is about 20.

L = lift in grammes, and is about 50.

V = rate of rise in metres per minute, and is about 150.

Sometimes two theodolites and a known base (of 540, 610, or 1,210 metres) are used.

A summary of the observations made at Helwan during the period 1920-1923, and of most of the remaining available observations of the motion of the upper strata of the atmosphere in Egypt and the Sudan, will be found in Physical Department Paper No. XVII. "The upper currents of the Atmosphere in Egypt and the Sudan" (1925). A further analysis of the ascents at Helwan during the period 1920-1928 is given in Physical Department Paper No. XXVII "Upper Winds at Cairo and Khartoum" (1930), by L. J. Sutton.

Duration of Sunshine.—A Campbell-Stokes sunshine recorder. As is usual with these instruments, even on a perfectly clear day there is a considerable interval both after sunrise and before sunset when the sun's rays are not powerful enough to burn the card. The recorded percentage of possible hours of sunshine is thus always less than the actual.* A report on the Campbell-Stokes recorder in use is given in Physical Department Paper No. XV (1924).

Evaporation.—A Piche evaporimeter in a double-louvred screen. Experiments have been made (see "Evaporation in Egypt and the Sudan", Survey Department Paper No. 15, [1909] by B. F. E. Keeling) connecting such measures of evaporation with the evaporation from open surfaces of water under various conditions. Further comparisons have been carried out for some years in Egypt and the Sudan and are published in "The Nile Basin", Volume 1, by Hurst and Phillips.†

Rainfall.—Self-recording rain-gauge by Negretti and Zambra, and ordinary rain-gauge, both cylindrical with catchment 200 area sq. cms., the rims being 1 metre above the ground.

Phenomena.—The following symbols and conventions have been employed:—

φ = latitude. E.

λ = longitude, E, of Greenwich.

, = drizzle.

● = rain.

▽ = showers.

* See also Meteorological Office, London, Professional Notes No 53.

† Cairo Government Press, 1931, Physical Department Paper No 26.

*	= snow.
*	= sleet.
▲	= hail.
↙	= gale.
<	= distant lightning (without thunder).
R	= thunderstorm (thunder and lightning, or thunder only).
=	= mist (visibility less than one kilometre).
∞	= dust haze.
s	= dust or sand storm.
≡	= fog (visibility less than one kilometre).
ξ	= dust devil.
D	= dew.
[= hoar frost.
⌞	= rainbow.
0	= unusual visibility of distant objects.
⊕	= solar halo.
⊙	= solar corona.
⊕	= lunar halo.
⊙	= lunar corona.

Intensity is expressed by attaching exponents 0 or 2 to the symbols. Thus \equiv^0 indicates thin fog and \equiv^2 thick fog, etc.

Exposure of instruments.—The standard instruments are exposed in double-louvred screens of the Egyptian pattern, similar to those used in the second and third order stations in Egypt, except that the latter are rather smaller and in most cases single-louvred. For a comparison of temperature readings taken in the screen with those taken by means of an Assmann ventilated psychrometer, see Introduction to the Meteorological Report for 1920.

General.—All the times in this part of the Report are Helwan local time, which is two hours and five minutes fast on Greenwich mean time. A detailed analysis of the meteorological observations extending over seventeen years is contained in Physical Department Paper No. XX "The Climate of Helwan", (1926) by L. J. Sutton.

M. R. MADWAR,

Director,

Royal Observatory, Helwan

STANDARD PRESSURE

(Millibars)

1944

The pressures published are Standard Pressures, i.e. they have been reduced to 0°C. and mean gravity, the correction which has been applied for reduction to mean gravity being—1.33 m.b.

The height of the barometer above sea-level is 115.6 metres, and the following are the mean corrections for each month to be applied to reduce to pressures at sea-level:—

Month	Altitude Correction m.b.
January	+ 13.92
February	+ 13.76
March	+ 13.56
April	+ 13.39
May	+ 13.32
June	+ 12.99
July	+ 13.01
August	+ 13.01
September	+ 13.15
October	+ 13.25
November	+ 13.52
December	+ 13.72

STANDARD PRESSURE**MEAN OF DAY**

900 m.b. +

1944

Days of Month	Jan.	Feb.	March	April	May	June	July	August	Sept.	October	Nov.	Dec.
1	97.61	109.52	100.17	103.10	97.72	101.40	95.80	94.67	99.71	97.97	97.41	100.36
2	102.71	108.12	97.84	100.49	100.08	100.41	96.47	95.83	98.76	97.75	98.63	103.24
3	100.60	108.77	98.56	103.54	101.20	99.60	95.92	95.64	98.08	102.40	101.54	100.20
4	101.61	108.37	104.56	105.12	102.20	99.08	93.89	94.92	97.57	104.49	103.33	100.66
5	107.69	105.40	105.21	103.90	106.84	97.96	93.07	96.40	97.76	105.94	100.48	103.69
6	108.12	103.86	101.40	99.83	108.28	94.61	93.21	96.47	98.45	104.65	96.95	109.26
7	105.08	102.94	102.13	101.57	104.30	93.16	94.00	96.12	97.65	100.32	97.95	108.84
8	105.04	100.93	102.49	104.86	99.49	95.73	96.19	97.05	95.77	97.59	100.86	104.85
9	109.32	107.24	98.95	107.81	97.57	95.77	96.55	98.60	95.80	98.87	103.61	103.48
10	111.60	105.34	96.48	105.22	98.49	94.24	95.37	97.88	97.59	101.84	102.16	103.70
11	108.84	104.72	96.45	98.55	97.80	95.83	94.81	95.11	98.68	102.50	100.81	102.45
12	105.70	103.62	92.55	98.88	98.23	96.88	94.68	95.28	98.60	100.53	103.30	101.42
13	102.98	102.05	94.87	102.73	99.67	92.91	95.03	95.08	97.40	102.26	102.48	101.18
14	106.25	104.68	97.40	101.73	98.60	91.08	94.81	95.08	97.52	102.72	102.52	103.69
15	108.93	99.44	101.68	96.68	94.47	94.77	95.27	95.29	99.11	101.57	103.42	103.17
16	107.08	89.89	102.89	98.01	95.45	96.88	95.97	94.32	98.93	98.44	104.80	104.85
17	104.85	91.21	98.37	100.28	97.52	98.36	95.69	93.64	99.73	100.68	103.30	107.54
18	102.72	102.92	103.24	102.36	98.11	96.47	97.11	94.85	99.79	101.13	102.48	106.77
19	105.64	104.96	103.57	103.10	100.53	95.65	96.88	96.24	100.33	100.64	104.17	104.84
20	107.37	102.22	103.25	101.46	101.58	94.57	96.11	95.61	102.61	100.56	105.21	102.30
21	108.02	98.40	97.91	98.89	102.00	91.15	96.28	94.80	102.34	98.08	106.58	102.74
22	109.68	100.54	101.48	99.13	100.17	92.19	95.84	94.29	100.72	100.90	104.57	102.66
23	107.30	103.13	104.01	99.72	97.64	93.19	95.44	94.20	101.24	100.94	98.87	100.61
24	106.88	105.56	100.17	98.80	102.02	94.84	94.32	96.84	100.72	100.46	98.15	100.32
25	108.92	106.56	99.53	96.68	102.05	94.65	93.97	95.83	100.04	101.01	100.05	98.08
26	109.24	103.17	91.29	93.61	96.59	94.55	94.29	94.16	99.43	102.10	103.38	99.73
27	106.05	100.77	87.88	92.79	99.61	95.19	93.28	92.41	99.47	100.01	105.09	98.93
28	102.34	99.92	94.75	96.93	99.68	96.24	94.85	94.40	100.96	96.71	104.44	102.40
29	101.04	103.02	97.19	94.91	101.84	95.83	96.08	98.15	101.56	97.97	101.61	99.79
30	104.72	—	105.05	94.25	102.66	93.88	97.00	101.05	100.50	98.33	98.55	97.88
31	108.81	—	108.45	—	102.53	—	96.61	101.44	—	98.25	—	95.71
Mean	105.97	103.01	99.67	100.16	100.16	95.57	95.32	95.85	99.23	100.57	101.89	102.42

STANDARD PRESSURE

(Millibars)

Deviation from Monthly Means for every Hour

1944

Month	HOURS OF OBSERVATIONS																							Mean of Month	
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Midn.	
January	-0.09	-0.11	-0.21	-0.40	-0.45	-0.12	+0.27	+0.83	+1.24	+1.47	+0.99	+0.09	-0.84	-1.19	-1.21	-1.11	-0.92	-0.56	-0.07	+0.29	+0.55	+0.67	+0.60	+0.40	1005.97
February	+0.24	+0.11	-0.11	-0.19	-0.15	+0.31	+0.64	+1.08	+1.60	+1.65	+1.33	+0.59	-0.33	-0.99	-1.29	-1.44	-1.27	-1.05	-0.72	-0.37	+0.01	+0.15	+0.15	+0.01	1003.01
March	+0.08	-0.20	-0.55	-0.64	-0.36	+0.09	+0.53	+1.04	+1.35	+1.32	+1.08	+0.59	-0.13	-0.79	-1.15	-1.32	-1.19	-0.91	-0.45	-0.05	+0.39	+0.44	+0.55	+0.39	999.67
April	+0.44	+0.12	-0.19	-0.37	-0.13	+0.29	+0.67	+0.97	+1.36	+1.32	+1.01	+0.51	-0.08	-0.67	-1.24	-1.51	-1.52	-1.36	-0.97	-0.28	+0.25	+0.52	+0.60	+0.41	1000.16
May	+0.17	-0.23	-0.33	-0.43	-0.11	+0.40	+0.79	+1.05	+1.15	+1.09	+0.81	+0.35	-0.17	-0.68	-1.20	-1.53	-1.63	-1.29	-0.85	-0.27	+0.35	+0.85	+0.92	+0.76	1000.16
June	+0.37	+0.09	-0.04	-0.09	+0.09	+0.49	+0.85	+1.09	+1.04	+0.95	+0.79	+0.40	-0.16	-0.61	-1.08	-1.44	-1.63	-1.47	-1.05	-0.41	+0.21	+0.61	+0.55	+0.36	995.57
July	+0.28	+0.09	+0.03	+0.08	+0.25	+0.55	+0.89	+1.11	+1.04	+1.00	+0.71	+0.27	-0.27	-0.73	-1.21	-1.57	-1.72	-1.52	-1.05	-0.41	+0.27	+0.63	+0.69	+0.53	995.32
August	+0.08	-0.17	-0.35	-0.29	-0.13	+0.27	+0.63	+0.93	+1.07	+1.04	+0.76	+0.32	-0.17	-0.64	-1.04	-1.28	-1.36	-1.21	-0.76	-0.07	+0.52	+0.73	+0.73	+0.59	995.85
September	+0.27	+0.05	-0.07	-0.07	+0.05	+0.24	+0.63	+0.93	+1.04	+0.92	+0.55	+0.03	-0.49	-0.95	-1.27	-1.40	-1.31	-1.05	-0.60	+0.07	+0.55	+0.71	+0.68	+0.52	999.23
October	+0.19	0.00	-0.23	-0.25	-0.12	+0.11	+0.41	+0.89	+1.13	+1.03	+0.56	-0.07	-0.68	-1.09	-1.25	-1.25	-1.09	-0.77	-0.25	+0.28	+0.65	+0.75	+0.63	+0.37	1000.57
November	+0.15	+0.03	-0.15	-0.23	-0.15	+0.27	+0.61	+1.01	+1.28	+1.29	+0.75	0.00	-0.69	-1.09	-1.28	-1.25	-1.01	-0.73	-0.31	+0.07	+0.32	+0.40	+0.44	+0.24	1001.89
December	+0.12	+0.12	0.00	-0.28	-0.31	+0.03	+0.48	+0.85	+1.41	+1.36	+0.77	-0.13	-0.87	-1.12	-1.13	-1.07	-0.91	-0.52	-0.11	+0.23	+0.37	+0.39	+0.36	+0.09	1002.42
Mean	+0.19	-0.01	-0.19	-0.27	-0.12	+0.24	+0.61	+0.99	+1.23	+1.20	+0.84	+0.24	-0.41	-0.88	-1.20	-1.35	-1.29	-1.04	-0.60	-0.08	+0.37	+0.57	+0.57	+0.39	999.98

TEMPERATURE (°O.)

MEAN OF DAY

1944

Days of Month	Jan.	Feb.	March	April	May	June	July	August	Sept.	October	Nov.	Dec.
1	17.74	12.83	21.46	22.61	21.12	22.46	27.82	27.71	25.64	26.15	27.13	16.56
2	14.95	12.88	25.98	20.07	19.74	23.53	31.00	27.78	26.18	26.12	25.32	16.68
3	17.50	13.43	16.70	15.88	18.45	23.94	31.14	26.75	26.59	25.05	24.15	15.12
4	14.65	13.14	14.84	14.95	16.39	25.68	28.94	27.49	27.10	24.25	23.25	14.27
5	12.54	13.04	15.22	18.03	16.76	28.80	28.55	27.62	27.15	24.38	23.70	14.55
6	13.47	14.45	17.75	21.80	19.36	32.26	30.10	26.82	27.26	24.02	20.84	15.07
7	12.92	15.19	16.34	17.27	19.81	33.14	27.35	26.41	27.02	23.57	17.21	15.70
8	11.63	13.67	15.50	16.26	21.95	29.02	26.96	25.64	26.74	24.63	17.43	16.33
9	11.65	11.10	16.84	17.37	24.13	28.18	26.77	25.86	27.17	25.22	18.25	18.09
10	13.87	12.47	17.42	19.86	23.90	30.01	27.20	25.98	27.99	25.76	19.27	17.90
11	13.96	13.02	20.07	23.15	23.90	30.82	29.01	27.45	28.13	26.15	18.65	16.38
12	13.91	14.43	23.34	19.08	24.13	30.64	29.10	28.52	27.66	26.84	18.99	15.90
13	12.77	14.65	18.52	17.80	24.13	33.43	27.10	28.27	27.61	23.58	19.36	14.18
14	11.59	12.92	16.28	19.17	24.90	32.03	26.79	28.26	27.59	22.52	19.60	14.49
15	10.47	18.44	16.94	21.92	26.90	29.36	25.52	29.38	26.40	24.65	19.62	16.35
16	10.37	23.15	17.85	17.18	22.78	27.65	25.67	31.09	26.25	27.25	19.39	15.06
17	10.90	15.95	18.29	18.05	23.65	26.58	26.38	27.37	25.29	23.30	19.80	14.96
18	11.85	12.52	15.75	20.24	25.88	27.32	26.55	28.00	24.27	22.98	18.47	14.58
19	9.17	13.34	14.33	21.19	25.02	28.01	26.78	27.87	23.84	22.90	16.60	14.86
20	8.70	15.40	14.59	21.75	24.41	29.63	26.81	27.59	23.24	23.18	16.23	15.28
21	10.93	16.28	17.81	24.68	25.75	33.18	27.74	26.64	22.64	25.60	16.08	14.85
22	11.73	14.01	17.13	26.56	29.15	30.58	27.30	26.45	24.53	22.11	16.37	15.02
23	12.19	13.92	19.78	27.86	32.96	30.17	28.35	29.07	25.29	21.35	16.56	14.53
24	11.18	13.04	20.45	28.29	27.28	27.86	30.13	30.77	25.35	21.85	15.66	12.69
25	12.02	13.38	18.40	27.51	27.48	30.41	31.00	31.76	25.46	22.68	16.43	12.90
26	13.03	16.78	24.82	30.33	25.80	29.35	27.98	29.60	25.16	22.44	18.41	13.78
27	14.41	21.36	21.06	28.60	21.07	27.19	26.72	29.57	24.91	22.42	18.11	15.10
28	14.46	22.11	15.70	24.70	21.05	27.43	27.70	30.54	25.54	25.95	17.68	13.05
29	10.58	19.75	16.72	28.91	21.00	27.10	28.05	28.64	25.65	26.97	16.85	15.86
30	10.41	—	14.05	29.12	20.68	27.26	27.05	27.13	24.69	28.18	16.30	17.27
31	10.14	—	17.43	—	21.80	—	26.85	25.90	—	26.77	—	12.01
Mean .	12.44	15.06	17.98	22.01	23.27	28.77	27.88	28.00	25.94	24.48	19.06	15.14

TEMPERATURE (°C.)

Deviation from Monthly Means for every Hour

1944

Month	HOURS OF OBSERVATIONS																							Mean of Month	
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Midn.	
January	-1.88	-2.34	-2.61	-3.03	-3.02	-3.45	-3.68	-3.22	-1.80	-0.03	+1.62	+3.08	+3.83	+3.98	+4.29	+3.85	+3.15	+2.29	+1.37	+0.59	+0.09	-0.45	-0.98	-1.61	12.44
February	-2.59	-3.00	-3.56	-3.89	-4.09	-4.33	-4.70	-3.57	-1.45	+0.33	+2.10	+3.47	+4.38	+4.79	+4.94	+4.80	+4.20	+2.83	+1.73	+0.92	+0.21	-0.60	-1.27	-1.71	15.06
March	-3.15	-3.77	-4.08	-4.61	-4.95	-5.20	-5.06	-3.40	-1.08	+1.21	+2.88	+4.10	+5.02	+5.58	+5.64	+5.44	+4.69	+3.38	+1.96	+0.91	-0.04	-1.01	-1.99	-2.50	17.98
April	-3.75	-4.69	-5.09	-6.07	-6.40	-6.34	-5.48	-3.20	-0.63	+1.81	+3.64	+4.98	+6.18	+6.46	+6.47	+6.22	+5.47	+4.38	+2.66	+0.94	-0.38	-1.52	-2.38	-3.36	22.01
May	-3.82	-4.30	-4.96	-5.41	-6.06	-5.57	-4.34	-2.61	-0.36	+1.37	+2.91	+4.23	+5.11	+5.71	+5.63	+5.85	+5.43	+4.41	+2.78	+1.14	-0.30	-1.44	-2.24	-3.19	23.27
June	-4.29	-4.91	-5.60	-6.14	-6.42	-6.51	-4.91	-2.77	-0.32	+1.51	+3.21	+4.41	+5.49	+6.20	+6.57	+6.52	+6.08	+5.27	+3.31	+1.29	-0.29	-1.63	-2.64	-3.49	28.77
July	-3.69	-4.31	-4.94	-5.50	-5.95	-5.86	-4.83	-3.33	-1.53	+0.33	+1.97	+3.40	+4.67	+5.55	+5.96	+6.07	+5.86	+5.14	+3.69	+2.11	+0.59	-0.68	-1.80	-2.79	27.88
August	-3.61	-4.20	-4.61	-5.13	-5.59	-5.74	-4.82	-3.14	-0.94	+1.05	+2.57	+3.83	+4.77	+5.38	+5.69	+5.66	+5.27	+4.32	+2.92	+1.53	+0.21	-0.91	-1.85	-2.72	28.00
September	-3.17	-3.74	-4.26	-4.75	-4.99	-5.31	-4.36	-2.61	-0.58	+1.16	+2.61	+3.65	+4.69	+5.32	+5.41	+5.21	+4.58	+3.55	+2.33	+1.18	-0.03	-1.12	-2.01	-2.67	25.94
October	-2.97	-3.55	-3.80	-4.15	-4.50	-4.87	-4.37	-2.72	-0.43	+1.52	+2.98	+4.24	+4.76	+5.23	+5.24	+4.78	+3.84	+2.67	+1.74	+0.44	-0.51	-1.29	-1.97	-2.37	24.48
November	-2.12	-2.55	-2.99	-3.30	-3.53	-3.62	-3.70	-2.28	-0.51	+1.36	+2.72	+3.44	+3.96	+4.29	+4.26	+3.88	+2.83	+1.89	+1.03	+0.18	-0.54	-1.13	-1.58	-2.07	19.06
December	-1.75	-2.22	-2.52	-2.71	-2.99	-3.22	-3.49	-2.61	-1.13	+0.22	+1.74	+2.91	+3.52	+4.05	+3.95	+3.52	+2.51	+1.70	+1.03	+0.49	-0.04	-0.62	-0.94	-1.37	15.14
Mean	-3.07	-3.63	-4.09	-4.56	-4.87	-5.00	-4.48	-2.96	-0.90	+0.99	+2.58	+3.81	+4.70	+5.21	+5.34	+5.15	+4.49	+3.49	+2.21	+0.98	-0.09	-1.03	-1.81	-2.49	21.67

MAXIMUM AND MINIMUM TEMPERATURE (°C.)

1944

Days of Month	January		February		March		April		May		June	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
1	23.3	12.8	18.3	7.1	30.0	10.2	30.9	11.4	28.1	16.7	29.6	15.7
2	18.9	10.3	17.1	7.4	32.5	15.9	24.7	14.5	25.2	15.6	30.5	16.6
3	22.0	12.5	17.8	8.7	21.4	12.5	20.9	11.9	23.4	12.8	30.7	16.1
4	18.6	10.4	17.8	7.5	19.2	10.7	20.6	8.7	22.5	11.2	33.2	17.1
5	18.6	7.0	18.6	7.0	21.6	8.6	23.6	10.7	22.5	9.4	36.2	19.0
6	19.3	8.3	20.5	8.9	27.2	11.0	29.5	15.7	25.1	13.5	39.9	24.2
7	18.1	7.2	20.9	9.3	23.4	9.6	23.1	12.0	27.2	13.6	43.0	20.2
8	16.9	7.8	19.6	8.0	21.5	9.3	21.7	11.7	30.0	14.9	36.0	23.5
9	17.5	5.4	17.6	5.3	24.6	11.5	23.7	12.0	32.0	16.8	34.2	21.1
10	18.9	9.8	18.4	6.5	23.9	11.4	28.4	10.8	30.1	16.4	37.5	21.3
11	19.1	8.9	19.2	7.2	27.7	11.3	31.5	12.4	31.8	15.3	37.3	25.1
12	18.3	9.8	22.1	6.8	29.7	16.5	25.2	14.7	32.0	16.7	39.0	21.5
13	18.8	7.4	21.1	7.9	24.4	14.0	24.1	11.6	32.4	16.0	41.0	23.8
14	16.5	8.1	18.4	6.3	21.6	10.9	24.9	12.5	31.9	16.0	38.3	21.9
15	14.0	6.3	24.1	10.2	24.0	10.0	32.2	15.2	36.7	18.0	35.4	22.2
16	14.8	5.8	28.0	17.8	25.0	11.0	22.9	12.2	30.5	16.6	32.1	21.7
17	16.7	5.6	25.6	11.5	25.6	13.4	25.3	10.8	30.0	15.5	32.7	19.8
18	17.1	7.1	17.8	7.7	20.6	12.0	27.6	12.9	33.5	17.9	33.7	19.6
19	15.6	4.2	19.2	7.3	19.1	10.6	28.7	14.6	30.5	18.4	34.4	20.5
20	15.3	3.2	20.3	11.1	20.7	7.2	30.3	14.8	31.0	16.5	36.5	20.9
21	16.2	6.2	24.2	8.9	26.5	9.4	32.8	15.4	33.4	17.4	42.5	22.9
22	16.6	7.0	19.2	7.8	24.4	9.0	35.7	14.0	37.7	17.5	38.7	21.4
23	15.7	9.3	18.9	9.7	26.2	12.8	37.6	16.4	44.0	22.0	37.3	23.0
24	18.3	5.8	17.6	7.4	27.7	12.5	37.6	16.1	34.0	21.0	35.5	20.4
25	17.2	5.6	18.6	7.9	24.6	12.4	36.8	16.1	35.7	17.5	39.0	19.7
26	19.6	7.5	24.7	7.9	34.0	10.7	39.3	18.0	32.0	18.7	37.0	21.6
27	19.8	9.2	28.4	13.0	31.3	14.1	39.6	18.2	26.9	16.5	34.2	21.9
28	20.1	9.0	30.9	14.5	19.8	11.7	32.6	16.8	27.2	14.1	34.6	21.7
29	15.1	7.0	26.9	12.4	24.0	10.0	36.1	17.5	26.0	16.0	34.4	21.4
30	17.1	7.4	—	—	18.7	9.7	36.7	19.4	26.0	14.3	35.1	20.3
31	14.9	4.5	—	—	24.7	9.7	—	—	28.1	16.5	—	—
Mean	17.71	7.63	21.10	8.93	24.70	11.28	29.49	13.97	30.24	16.11	36.01	20.87
Extreme for Month	23.3	3.2	30.9	5.3	34.0	7.2	39.6	8.7	44.0	9.4	43.0	15.7

Days of Month	July		August		September		October		November		December	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
1	34.1	20.5	35.5	20.7	30.7	19.2	32.8	19.3	31.2	22.5	21.5	10.7
2	38.4	21.1	34.4	20.6	32.1	19.9	33.4	18.7	31.1	17.8	22.0	11.0
3	38.5	22.5	33.2	19.1	32.6	20.3	30.0	20.4	30.5	18.3	21.4	10.7
4	36.3	21.6	35.0	19.2	33.8	19.8	29.6	19.0	28.5	18.4	19.9	8.7
5	36.5	21.4	34.1	21.5	33.8	19.9	30.1	19.6	29.5	18.0	19.3	10.8
6	38.5	20.6	33.5	20.9	34.5	20.0	29.5	19.4	24.5	17.0	20.9	10.0
7	34.8	19.9	32.4	21.0	33.6	21.3	29.1	18.0	21.7	14.1	21.7	10.5
8	33.5	20.9	31.6	19.3	33.6	20.8	30.5	18.2	23.3	13.0	21.9	11.2
9	33.2	21.5	31.5	19.7	33.7	20.7	31.2	19.0	24.4	12.1	23.6	12.3
10	33.6	20.9	32.1	20.0	35.3	20.2	32.5	19.2	24.9	13.4	22.9	13.5
11	36.4	20.5	35.2	20.2	34.8	21.4	32.0	20.4	23.5	13.2	21.9	8.6
12	36.0	21.0	36.0	20.8	32.6	22.2	34.3	20.1	24.3	13.1	21.0	11.7
13	33.6	19.5	35.8	20.4	33.5	20.5	28.0	18.5	24.2	13.8	18.6	9.8
14	32.5	20.6	35.7	21.4	32.7	21.1	27.2	17.3	24.1	15.6	19.0	10.6
15	31.4	19.0	35.9	20.8	32.0	20.8	32.4	17.2	24.5	15.5	22.4	10.9
16	31.6	19.1	37.2	23.9	31.4	21.6	34.7	21.9	24.0	15.6	20.0	8.8
17	32.9	20.4	34.0	21.4	30.6	20.2	27.5	17.9	24.1	14.1	19.2	9.9
18	32.9	19.6	34.7	22.2	28.8	19.7	28.9	16.8	23.3	13.0	19.5	9.0
19	32.8	19.5	33.7	20.9	29.1	17.8	28.0	17.3	21.0	11.9	19.0	9.9
20	33.4	19.2	33.5	20.6	28.4	18.8	29.7	17.6	20.5	12.7	19.7	9.7
21	34.1	21.0	32.5	19.0	28.2	16.4	33.4	18.4	20.9	10.5	19.1	10.1
22	33.8	20.8	31.9	19.4	30.8	18.3	26.0	16.9	20.5	11.0	19.5	10.1
23	34.6	21.8	35.4	20.0	31.6	20.1	26.0	16.1	21.5	10.9	20.0	9.8
24	37.3	20.3	37.6	22.6	31.9	19.2	28.2	16.1	20.6	11.6	15.5	9.0
25	39.8	23.7	39.3	24.3	31.6	19.8	30.2	16.2	20.6	11.4	18.5	8.3
26	34.4	21.9	36.6	22.4	32.1	17.7	27.8	16.9	23.5	14.0	19.0	9.0
27	33.1	20.4	36.0	21.0	31.4	17.4	28.4	16.2	22.9	12.5	19.9	10.7
28	33.8	21.9	36.6	23.0	32.0	19.1	32.3	20.2	22.8	12.2	17.8	6.9
29	34.5	21.6	35.0	22.4	32.0	20.6	33.4	18.4	22.2	11.0	20.8	10.6
30	32.9	20.9	33.2	21.0	31.3	18.5	35.7	18.8	20.3	10.4	19.0	15.0
31	33.7	20.0	30.4	20.5	—	—	31.9	19.9	—	—	15.7	10.7
Mean	34.61	20.76	34.50	20.97	32.02	19.74	30.47	18.38	23.96	13.95	20.01	10.27
Extreme for Month	39.8	19.0	39.3	19.0	35.3	16.4	35.7	16.1	31.2	10.4	23.6	6.9

RELATIVE HUMIDITY

MEAN OF DAY

1944

Days of Month	Jan.	Feb.	March	April	May	June	July	August	Sept.	October	Nov.	Dec.
1	48	66	30	22	60	54	51	55	57	52	32	63
2	68	68	16	45	57	51	36	54	55	55	50	56
3	62	69	65	60	50	46	33	55	57	62	59	59
4	51	67	62	54	64	33	45	54	55	55	61	76
5	59	64	59	48	58	24	54	52	55	55	54	73
6	60	37	47	38	47	17	44	54	60	60	72	68
7	59	31	63	66	54	22	52	62	61	61	73	65
8	51	32	67	70	49	32	54	61	64	58	60	64
9	66	50	59	61	36	30	60	59	64	57	50	62
10	61	44	64	45	39	32	58	59	59	61	49	65
11	57	38	45	40	49	32	51	55	56	50	63	68
12	67	44	26	63	54	24	46	55	61	45	44	68
13	74	36	61	60	52	17	52	56	56	60	50	76
14	76	48	50	52	38	25	50	56	54	56	52	81
15	62	24	34	41	33	32	57	49	64	45	60	62
16	64	17	43	66	56	37	56	37	66	37	61	68
17	60	37	42	60	44	52	53	54	62	61	60	68
18	56	48	55	39	35	47	47	57	59	57	69	71
19	61	38	53	30	36	38	46	54	61	55	66	69
20	69	39	52	41	42	26	51	52	58	49	71	67
21	71	40	45	36	33	23	50	56	54	41	64	77
22	66	41	53	36	24	41	55	56	54	56	61	72
23	53	57	31	33	19	38	51	44	57	58	58	71
24	63	60	26	25	35	46	45	41	56	52	59	66
25	64	54	49	23	31	34	48	37	57	49	58	59
26	62	40	36	27	35	39	53	43	58	52	71	60
27	57	20	24	41	53	56	57	41	58	62	66	48
28	49	22	38	49	52	55	57	43	55	44	66	68
29	74	35	46	19	50	56	54	50	57	32	65	48
30	82	—	53	25	52	53	55	51	58	34	60	71
31	68	—	35	—	53	—	54	58	—	40	—	92
Mean	63	44	46	44	45	37	51	52	58	52	59	67

RELATIVE HUMIDITY

Deviation from Monthly Means for every Hour

1944

Month	HOURS OF OBSERVATIONS																							Mean of Month	
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Midn.	
January	+11	+13	+14	+16	+16	+18	+18	+14	+7	-4	-11	-18	-21	-21	-22	-19	-16	-12	-7	-4	-1	+3	+6	+10	63
February	+10	+11	+13	+14	+16	+17	+18	+12	+5	-2	-9	-14	-16	-18	-18	-18	-16	-10	-6	-6	-3	+1	+4	+7	44
March	+15	+20	+21	+23	+24	+25	+23	+15	+4	-6	-13	-18	-21	-23	-24	-24	-21	-17	-11	-7	-3	+2	+8	+11	46
April	+13	+18	+20	+26	+28	+27	+23	+12	+1	-8	-14	-18	-22	-23	-24	-23	-21	-18	-13	-7	-3	+3	+8	+13	44
May	+16	+19	+23	+24	+28	+25	+19	+9	0	-7	-14	-18	-21	-23	-20	-23	-22	-19	-14	-8	-2	+3	+7	+13	45
June.	+15	+17	+20	+22	+23	+24	+18	+10	+1	-6	-11	-15	-18	-20	-21	-21	-20	-18	-14	-8	-2	+4	+8	+12	37
July	+16	+20	+24	+28	+30	+30	+25	+17	+7	-2	-10	-17	-21	-25	-25	-27	-26	-23	-19	-14	-7	-1	+5	+11	51
August	+16	+20	+22	+25	+27	+28	+24	+16	+6	-4	-13	-18	-21	-25	-26	-26	-24	-21	-15	-9	-3	+2	+7	+11	52
September	+18	+21	+24	+26	+27	+29	+23	+14	+3	-7	-14	-18	-23	-26	-26	-25	-23	-20	-15	-9	-2	+5	+10	+15	58
October	+15	+18	+19	+20	+22	+23	+20	+13	+3	-8	-15	-19	-22	-23	-24	-22	-19	-15	-10	-4	+1	+6	+10	+12	52
November	+12	+14	+16	+18	+19	+20	+21	+13	+5	-5	-12	-16	-19	-22	-22	-20	-16	-12	-7	-3	+2	+5	+8	+11	59
December	+10	+13	+14	+15	+15	+16	+18	+11	+5	-1	-9	-15	-17	-21	-20	-18	-13	-9	-5	-3	0	+4	+5	+8	67
Mean	+13	+16	+19	+21	+22	+23	+20	+12	+3	-6	-13	-18	-21	-23	-23	-23	-20	-17	-12	-7	-2	+3	+7	+11	52

VAPOUR PRESSURE

(Millibars)

MEAN OF DAY

1944

Days of Month	Jan.	Feb.	March	April	May	June	July	August	Sept.	October	Nov.	Dec.
1	9.49	9.52	6.80	5.31	14.17	13.39	17.35	18.96	17.65	15.93	10.91	11.23
2	11.24	9.77	4.79	9.97	12.40	13.21	13.68	18.37	17.71	16.85	14.83	9.84
3	12.00	10.29	12.01	10.17	9.77	11.88	13.32	17.80	18.61	18.81	16.57	9.77
4	8.28	9.72	9.89	8.65	11.48	9.33	16.08	18.07	18.13	15.60	16.32	12.04
5	8.40	9.11	9.40	9.15	9.99	8.19	18.93	17.65	18.09	15.69	15.04	11.68
6	8.83	5.80	8.13	9.09	9.83	7.33	15.87	17.95	20.45	16.91	17.53	11.20
7	8.56	5.11	10.80	12.13	11.47	9.73	17.59	20.07	20.31	17.01	13.89	11.17
8	6.64	4.76	10.93	12.21	11.44	11.97	17.73	18.87	20.84	16.55	10.92	11.51
9	8.85	6.23	9.95	11.08	9.44	10.29	19.92	18.48	21.39	17.24	10.07	12.11
10	9.25	6.03	11.73	8.48	10.69	12.04	19.52	18.83	20.20	19.01	10.52	12.80
11	8.63	5.57	8.51	10.11	12.69	13.15	17.81	18.45	19.41	15.60	13.09	12.24
12	10.33	6.68	6.51	13.13	14.49	8.80	17.11	19.56	21.49	14.63	9.05	12.03
13	10.39	5.57	12.43	11.31	13.63	7.13	17.32	19.28	19.48	16.67	10.60	12.13
14	10.24	6.60	8.24	10.35	10.72	10.48	16.91	19.55	18.47	14.47	11.49	13.04
15	7.60	4.53	5.84	9.57	10.24	12.04	17.41	17.91	20.96	13.07	13.33	10.91
16	7.75	4.84	7.91	12.29	13.67	13.44	17.44	16.09	21.20	12.60	13.44	11.31
17	7.37	6.51	8.19	11.28	11.47	16.71	16.87	18.43	18.55	16.53	13.43	11.17
18	7.48	6.57	9.27	7.76	10.43	15.35	15.15	19.83	16.96	14.87	13.97	11.25
19	6.56	5.44	8.20	6.35	10.48	13.08	14.85	18.51	17.09	14.80	12.05	11.25
20	7.71	6.47	7.87	9.72	11.57	9.27	16.53	17.56	15.85	13.07	12.65	11.40
21	8.87	6.40	8.04	9.91	9.36	10.23	17.01	18.41	13.95	12.32	11.23	12.75
22	8.59	6.15	9.11	10.81	7.88	15.45	18.60	17.73	15.83	14.27	10.96	11.87
23	7.27	8.75	6.48	10.03	7.80	14.72	17.89	16.05	17.47	14.00	10.37	11.36
24	8.13	8.67	5.55	7.63	11.59	15.44	16.93	17.11	17.03	12.77	9.93	9.44
25	8.53	7.88	10.07	6.83	9.31	11.87	19.41	15.71	17.51	12.01	10.79	8.69
26	8.88	6.80	8.01	9.83	10.83	14.77	18.44	15.87	16.80	13.57	14.55	9.09
27	8.87	5.01	6.21	13.85	12.49	19.00	18.53	15.85	16.60	15.49	12.93	7.81
28	7.69	5.71	6.57	13.15	11.88	18.81	20.01	17.40	16.53	13.56	12.81	9.76
29	9.17	7.00	7.81	6.71	11.71	18.43	18.73	17.80	17.60	11.08	11.75	8.29
30	10.11	—	7.83	8.68	12.12	17.19	18.17	17.67	16.53	12.29	10.83	13.84
31	8.04	—	6.12	—	12.76	—	17.36	18.43	—	13.07	—	12.72
Mean	8.71	6.81	8.36	9.85	11.21	12.76	17.37	18.01	18.29	14.85	12.53	11.15

VAPOUR PRESSURE

(Millibars)

Deviation from Monthly Means for every Hour

1944

Month	HOURS OF OBSERVATIONS																							Mean of Month	
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Midn.	
January	+0.71	+0.56	+0.55	+0.59	+0.48	+0.48	+0.41	+0.19	+0.23	-0.24	-0.51	-0.89	-0.96	-0.93	-1.09	-0.83	-0.64	-0.31	+0.03	+0.12	+0.17	+0.41	+0.59	+0.73	8.71
February	+0.68	+0.60	+0.52	+0.53	+0.63	+0.64	+0.65	+0.49	+0.48	+0.24	-0.48	-0.84	-0.92	-1.31	-1.19	-1.04	-0.87	-0.13	+0.11	-0.27	+0.01	+0.37	+0.47	+0.53	6.81
March	+1.29	+1.68	+1.63	+1.61	+1.51	+1.55	+1.47	+1.39	+0.85	+0.12	-0.67	-1.41	-1.83	-2.24	-2.43	-2.28	-1.84	-1.23	-0.60	-0.43	-0.24	+0.31	+0.80	+0.99	8.36
April	+1.12	+1.64	+1.51	+2.13	+2.05	+1.95	+1.96	+1.69	+0.85	-0.48	-1.20	-1.73	-2.53	-2.65	-2.68	-2.40	-2.13	-1.63	-0.87	-0.15	+0.20	+0.64	+1.07	+1.56	9.85
May	+1.88	+2.12	+2.43	+2.45	+2.69	+2.41	+2.23	+1.53	+0.73	-0.19	-1.09	-1.93	-2.76	-3.11	-2.72	-3.21	-2.85	-2.40	-1.48	-0.57	+0.20	+0.80	+1.24	+1.75	11.21
June	+2.32	+2.44	+2.76	+2.83	+2.75	+3.04	+2.87	+2.11	+0.93	-0.36	-1.15	-2.15	-3.08	-3.60	-3.79	-4.28	-3.79	-3.01	-2.05	-0.80	+0.47	+1.32	+1.85	+2.27	12.76
July	+2.54	+2.92	+3.33	+3.69	+3.72	+3.84	+3.80	+3.13	+2.03	+0.67	-0.68	-2.21	-3.29	-4.19	-4.27	-4.71	-4.53	-3.76	-2.96	-1.85	-0.64	+0.31	+1.23	+1.85	17.37
August	+2.43	+2.61	+2.69	+2.76	+2.96	+3.07	+3.07	+2.99	+2.12	+0.32	-1.36	-2.32	-3.21	-4.29	-4.61	-4.53	-3.89	-3.36	-1.93	-0.65	+0.39	+1.00	+1.60	+2.04	18.01
September	+2.52	+2.71	+2.73	+2.68	+2.69	+2.61	+2.55	+2.01	+1.21	-0.12	-1.32	-2.12	-3.11	-3.76	-3.96	-3.69	-3.28	-3.00	-2.12	-0.92	+0.21	+1.23	+1.87	+2.28	18.29
October	+1.96	+2.07	+2.13	+1.91	+2.13	+1.89	+1.81	+1.85	+1.08	-0.41	-1.59	-2.24	-2.87	-3.32	-3.28	-3.11	-2.53	-1.91	-0.93	+0.01	+0.72	+1.25	+1.64	+1.56	14.85
November	+1.01	+1.03	+1.05	+1.05	+1.04	+1.07	+1.17	+0.85	+0.76	+0.19	-0.48	-1.04	-1.60	-2.03	-2.08	-1.88	-1.44	-1.01	-0.47	-0.07	+0.35	+0.64	+0.84	+0.92	12.53
December	+0.57	+0.55	+0.51	+0.47	+0.37	+0.28	+0.31	+0.04	+0.17	+0.20	-0.20	-0.60	-0.67	-1.09	-1.12	-0.93	-0.49	-0.15	+0.07	+0.12	+0.27	+0.44	+0.48	+0.56	11.15
Mean	+1.59	+1.75	+1.83	+1.89	+1.92	+1.91	+1.85	+1.52	+0.96	0.00	-0.89	-1.63	-2.24	-2.71	-2.77	-2.75	-2.36	-1.83	-1.11	-0.45	+0.17	+0.73	+1.13	+1.43	12.49

WIND

Velocity in kilometres per hour.

Direction in degrees E. of N. for 8, 11, 14, 17 and 20 hours

1944

January

Date	8					11					14					17					20				
	Dir. E. of N.	Vel. Kms. P.H.																							
o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	
1	110	4	160	14	180	8	160	25	290	3	1	135	11	180	9	250	4	315	21	315	10	110	11		
2	20	2	290	6	290	10	290	8	o	11	2	—	o	225	5	290	14	340	15	340	11	340	10		
3	45	27	45	13	o	13	o	9	340	11	3	20	5	290	3	290	14	340	12	340	10	340	12		
4	290	6	270	31	250	31	270	24	270	11	4	45	1	315	9	o	11	315	16	340	12	340	12		
5	160	9	180	14	225	18	225	8	180	5	5	—	o	160	6	225	1	270	5	135	9	160	9		
6	90	4	290	8	20	5	o	11	20	20	6	110	14	180	26	200	29	180	24	180	9	160	9		
7	—	o	135	7	180	3	200	4	160	7	7	110	13	180	13	180	22	225	11	160	12	160	12		
8	225	10	250	34	200	25	270	26	250	22	8	135	12	180	22	225	30	225	40	270	24	270	24		
9	135	11	180	9	160	8	200	5	340	13	9	160	17	180	15	250	18	270	11	180	5	160	10		
10	70	4	160	4	315	11	340	8	o	11	10	90	12	180	8	200	18	200	13	160	10	160	10		
11	20	5	20	21	20	17	20	12	20	9	11	135	10	180	10	200	9	180	6	45	7	160	4		
12	o	11	45	12	340	14	315	12	340	20	12	110	4	225	5	250	9	225	2	160	4	160	4		
13	110	9	160	9	180	6	270	14	290	8	13	135	10	180	21	225	18	315	16	340	18	340	18		
14	160	13	180	14	315	12	315	24	315	18	14	45	6	340	10	290	10	340	12	20	7	340	20		
15	315	8	250	7	290	19	315	13	340	7	15	45	7	90	33	180	10	110	26	135	20	340	24		
16	340	1	290	6	290	6	290	2	180	8	16	160	11	160	15	180	30	200	12	135	24	225	31		
17	135	10	180	22	200	30	160	20	225	11	17	225	13	270	37	225	40	225	46	225	31	225	31		
18	135	15	160	36	200	31	200	28	225	15	18	180	25	200	36	200	26	225	15	200	4	160	4		
19	160	15	225	26	200	23	270	25	270	14	19	110	5	250	7	290	7	315	7	o	12	160	9		
20	135	12	200	26	270	34	290	23	290	8	20	45	21	o	12	o	15	o	13	o	13	o			
21	160	16	160	14	290	28	315	25	340	17	21	110	2	160	18	180	21	180	14	290	12	160	10		
22	90	5	225	4	290	12	340	7	o	8	22	160	9	270	30	270	26	270	23	290	16	270	16		
23	315	1	340	7	315	10	315	8	o	9	23	—	o	290	9	315	23	340	23	o	16	340	10		
24	90	5	160	5	250	8	290	10	315	7	24	—	o	315	9	290	14	340	18	o	10	340	15		
25	45	3	70	3	290	16	315	11	340	8	25	20	1	o	16	o	14	20	14	o	15	7			
26	110	8	160	16	160	6	290	10	o	10	26	70	1	180	7	200	11	200	8	200	7	160	7		
27	45	2	290	6	290	11	290	11	o	12	27	135	14	180	33	180	19	225	4	o	24	160	7		
28	70	7	160	7	290	5	200	3	135	10	28	110	8	180	9	225	19	225	4	o	24	160	7		
29	135	12	180	23	200	28	180	11	180	5	29	70	11	o	8	340	15	o	17	20	33	33	33		
30	160	9	270	36	270	23	290	23	290	18	30	110	19	340	8	340	15	o	17	20	33	33	33		
31	160	10	180	10	290	18	315	19	340	8	30	110	2	180	14	315	36	o	11	290	32	315	32		

February

Date	8					11					14					17					20				
	Dir. E. of N.	Vel. Kms. P.H.																							
o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o		
1	135	11	180	22	225	14	225	5	290	14	2	—	o	225	5	290	21	290	22	o	16	340	11		
2	—	o	110	11	180	10	180	9	110	18	3	315	16	290	16	315	23	315	17	o	31	340	11		
3	315	17	340	25	340	46	340	46	o	23	4	20	7	o	12	o	14	290	15	o	30	340	11		
4	315	12	315	27	290	26	315	23	340	13	4	20	7	o	17	5	70	3	225	7	315	20			
5	o	2	20	11	340	13	20	19	340	19	5	70	3	225	7	315	18	20	16	45	30	340	27		
6	45	33	70	13	45	17	20	30	45	38	6	160	10	180	25	200	28	315	32	340	24	340	24		
7	20	26	o	21	o	18	o	22	o	19	7	225	9	290	8	290	28	315	29	340	25	340	25		
8	45	11	o	23	o	26	o	25	20	25	8	9	340	3	290	17	315	17	290	15	340	23			
9	20	13	45	29	20	34	45	34	45	48	9	340	3	290	3	315	17	290	20	20	19	340	23		
10	20	39	20	24	340	18	340	18	o	15	10	45	17	70	12	o	20	20	19	20	17	340	17		
11	90	1	160	16	180	23	200	13	135	22	11	315	5	250	9	290	9	315	13	o	18	315	36		
12	135	21	180	48	200	33	180	15	20	22	12	315	23	290	23	315	18	315	22	340	19	340	19		
13	o	17	o	23	o	14	340	24	290	5	13	270	4	290	14	290	19	290	14	340	11	340	11		
14	70	2	250	8	290	32	290	22	290	5	14	15	20	3	270	12	290	19	315	40	340	27			
15	70</td																								

WIND

Velocity in kilometres per hour.

Direction in degrees E. of N. for 8, 11, 14, 17, and 20 hours (Contd.)

1944

May

June

Date	May					June				
	8	11	14	17	20	8	11	14	17	20
Dir. E. of N.	Vel. Kms. P.H.	Dir. E. of N.								
o	o	o	o	o	o	o	o	o	o	o
1	45	46	45	39	20	28	o	25	o	23
2	20	14	o	16	315	17	315	33	340	32
3	340	10	290	9	290	17	290	22	o	29
4	315	12	290	14	o	11	o	14	340	11
5	340	8	340	10	340	14	340	21	20	25
6	70	23	20	20	o	22	20	23	20	32
7	20	30	20	45	20	29	20	31	o	29
8	340	17	20	36	20	32	20	35	20	39
9	o	20	20	27	o	35	20	35	20	41
10	340	15	o	23	340	15	315	16	20	25
11	290	12	315	26	315	25	315	26	340	22
12	290	13	290	11	290	19	315	19	340	23
13	o	10	290	13	315	20	315	19	340	20
14	—	o	290	10	290	20	315	29	340	17
15	160	13	160	19	225	29	315	36	315	26
16	290	9	250	11	270	22	270	22	315	27
17	290	4	290	7	270	11	315	15	340	13
18	315	4	250	7	315	13	340	22	20	35
19	20	14	340	13	315	19	290	23	340	28
20	45	5	o	13	340	16	340	16	20	30
21	315	8	20	20	45	22	20	21	45	22
22	45	3	270	13	315	26	340	15	340	10
23	160	4	180	17	180	22	290	37	340	22
24	340	9	290	12	290	26	315	29	o	25
25	45	10	20	12	o	12	45	16	20	15
26	160	9	315	35	315	34	315	36	315	31
27	315	17	290	11	315	18	315	25	315	31
28	290	3	270	10	270	11	290	15	o	28
29	340	16	315	15	315	20	315	23	340	32
30	o	7	290	18	315	17	290	19	340	24
31	o	13	o	18	340	20	o	21	20	32

July

August

Date	July					August				
	8	11	14	17	20	8	11	14	17	20
Dir. E. of N.	Vel. Kms. P.H.	Dir. E. of N.								
o	o	o	o	o	o	o	o	o	o	o
1	o	6	290	12	o	17	340	18	o	18
2	340	5	o	8	315	14	o	18	o	17
3	290	9	20	17	340	20	o	23	340	27
4	20	14	340	28	340	27	o	29	340	27
5	315	19	315	21	340	23	340	27	340	25
6	315	15	315	14	340	20	340	22	o	18
7	340	14	290	13	315	16	315	18	340	27
8	340	11	340	15	290	22	290	26	315	19
9	290	13	290	14	290	22	315	25	340	28
10	315	10	290	16	290	18	315	20	340	25
11	340	9	290	14	270	18	290	15	o	24
12	315	16	290	17	315	19	315	24	340	22
13	o	7	290	13	315	20	315	22	o	24
14	o	9	315	19	290	30	315	29	340	24
15	315	5	290	16	290	22	315	25	340	20
16	290	4	290	19	290	21	315	23	340	22
17	315	7	290	12	315	19	315	23	340	17
18	290	4	315	12	290	16	340	17	315	17
19	340	6	290	16	315	20	340	19	340	20
20	340	4	290	18	340	19	315	22	315	18
21	315	13	315	20	315	24	315	26	340	15
22	315	6	290	16	290	19	315	23	315	19
23	290	4	315	8	270	18	290	14	340	18
24	340	6	290	12	340	13	315	15	340	35
25	290	1	270	4	315	20	315	28	o	47
26	315	15	290	16	290	24	315	21	340	33
27	290	8	270	20	270	28	315	29	340	20
28	290	7	290	8	270	15	315	19	340	31
29	340	11	315	13	290	13	315	13	200	5
30	315	13	290	20	290	21	315	25	340	32
31	o	6	290	16	290	19	340	17	315	19

WIND

Velocity in kilometres per hour.

Direction in degrees E. of N. for 8, 11, 14, 17 and 20 hours (Contd.)

1944

September

October

Date	8					11					14					17					20					Date	8					11					14					17					20				
	Dir. E.ofN.	Vel. Kms. P.H.																																																	
	o		o		o		o		o		o		o		o		o		o		o		o		o		o		o		o		o																		
1	o	11	340	15	315	20	340	15	o	15	1	45	34	45	33	20	28	20	22	20	20	34	o																												
2	340	7	o	14	340	20	340	24	o	14	2	340	2	290	24	315	18	315	17	315	17	o	17	o																											
3	45	22	20	22	315	22	o	26	o	22	3	o	8	340	20	315	17	340	24	o	24																														
4	45	13	340	20	340	20	340	23	o	24	4	20	20	o	26	o	24	o	25	o	25	45	30	o																											
5	340	8	315	17	340	21	o	23	o	28	5	o	24	20	28	20	30	o	27	o	27																														
6	o	10	290	17	o	25	340	30	340	27	6	20	17	o	28	o	26	o	26																																
7	340	11	290	13	340	18	340	19	340	16	7	o	16	o	20	o	19	340	18	o	18																														
8	340	7	290	16	290	20	340	15	340	20	8	o	15	o	19	o	21	340	16	o	16																														
9	290	7	290	8	315	8	315	13	340	21	9	20	1	20	14	o	19	o	19	o	19	20	25	o																											
10	o	1	225	8	315	6	290	5	20	11	10	45	4	20	19	340	22	o	20	20	20	20	20	20	20	20	20	20	20	20	20	20																			
11	90	6	270	12	225	11	315	20	20	19	11	20	13	o	19	o	24	o	14	o	14																														
12	340	6	315	15	315	19	340	19	o	13	12	o	290	10	315	13	340	17	o	17																															
13	45	8	290	15	315	21	340	19	20	25	13	o	290	10	290	14	315	17	340	20	o	20	20	20	20	20	20	20	20	20																					
14	340	3	340	16	315	22	340	17	20	23	14	340	4	315	16	315	18	340	11	o	9	9	9	9	9	9	9	9	9	9																					
15	o	14	315	18	315	23	340	21	o	26	15	90	5	290	10	340	17	17	22	45	17	17	17	17	17	17	17	17	17	17																					
16	315	13	340	24	o	23	340	25	340	27	16	155	7	160	8	180	11	340	25	25	25	25	25	25	25	25	25	25	25																						
17	315	6	315	16	315	12	340	14	340	26	17	17	340	6	315	6	315	15	340	15	340	15	340	15	340	15	340	15	340																						
18	o	14	290	19	315	19	340	17	o	24	18	315	6	o	7	o	14	340	22	22	22	22	22	22	22	22	22	22	22																						
19	o	2	290	16	313	18	340	13	o	23	19	45	13	45	6	340	12	315	17	o	13	13	13	13	13	13	13	13	13	13																					
20	315	5	315	15	315	21	340	19	340	31	20	o	290	5	270	5	315	18	o	21	21	21	21	21	21	21	21	21	21																						
21	o	14	340	17	340	21	o	23	o	23	21	70	3	180	12	200	16	250	10	315	13	o	17	o	17	o	17	o	17	o	17																				
22	o	17	20	22	o	22	o	23	o	23	22	45	3	290	12	290	15	315	13	340	16	340	16	340	16	340	16	340	16	340																					
23	o	28	20	27	o	25	o	28	o	27	23	20	8	o	12	o	14	340	22	22	22	22	22	22	22	22	22	22	22																						
24	315	11	20	28	o	24	o	25	o	25	20	30	24	45	11	20	18	20	13	20	17	45	23	23	23	23	23	23	23	23	23																				
25	315	12	20	34	340	25	o	28	o	28	25	70	2	45	11	20	23	20	340	21	20	20	20	20	20	20	20	20	20																						
26	o	10	o	17	o	18	o	20	o	15	26	o	3	340	20	340	22	340	21	340	21	340	21	340	21	340	21	340	21	340																					
27	20	9	340	16	o	17	340	20	o	18	27	20	19	20	30	20	23	20	23	20	23	20	23	20	23	20	23	20	23	20																					
28	20	11	20	20	o	20	o	25	o	25	20	32	28	70	7	180	6	200	10	225	2	110	10	110	10	110	10	110	10	110																					
29	45	35	20	31	o	22	o	25	o	25	20	29	29	70	1	290	11	315	5	340	11	o	23	o	23	o	23	o	23	o	23																				
30	45	18	20	21	o	24	o	22	20	15	30	315	6	315	19	o	16	45	29	45	29	45	29	45	29	45	29	45	29	45																					

November

December

Date	8					11					14					17					20					Date	8					11					14					17					20				
	Dir. E.ofN.	Vel. Kms. P.H.																																																	
	o		o		o		o		o		o		o		o		o		o		o		o		o		o		o		o		o																		
1	45	40	45																																																

WIND VELOCITY
(Kilometres per hour)

MEAN OF DAY

1944

Days of Month	Jan.	Feb.	March	April	May	June	July	August	Sept.	October	Nov.	Dec.
1	9.5	8.5	7.7	8.9	27.5	22.3	12.6	12.7	14.4	28.7	38.7	8.8
2	8.0	6.7	19.4	17.6	19.8	20.0	12.5	13.5	16.2	16.2	26.9	12.2
3	15.0	8.8	24.9	17.5	17.2	15.2	18.5	14.2	18.3	17.1	15.3	9.1
4	15.5	6.5	16.3	13.0	12.0	17.3	21.4	11.8	18.0	19.8	13.0	11.4
5	8.7	4.4	14.2	15.1	13.8	17.3	19.3	13.8	16.2	23.8	7.5	10.0
6	11.2	16.8	26.6	18.3	24.5	29.2	14.2	16.9	18.3	21.1	11.5	7.0
7	5.3	12.3	18.7	16.1	28.4	12.2	14.8	18.4	13.7	17.9	12.4	5.5
8	18.4	19.7	21.5	17.1	23.3	14.6	17.1	14.5	12.8	15.1	10.3	13.4
9	9.8	11.1	31.7	11.3	22.1	11.9	17.5	16.0	9.3	15.3	9.6	16.7
10	7.8	10.0	23.2	17.7	16.2	12.7	15.5	19.2	6.8	17.7	11.0	19.4
11	12.9	9.6	16.4	11.0	18.5	22.2	14.4	19.6	10.0	14.3	7.2	6.2
12	12.8	7.0	26.5	22.5	14.2	15.6	15.8	18.8	11.8	12.0	9.7	10.9
13	6.3	14.9	22.0	11.6	15.2	28.1	15.4	17.2	14.7	10.5	18.0	9.9
14	15.0	7.9	12.3	10.4	11.0	18.3	16.7	15.7	15.9	10.5	19.2	6.2
15	9.4	14.2	14.0	20.7	19.6	14.9	14.7	14.3	18.2	14.4	20.2	9.5
16	4.9	20.6	17.9	21.4	15.2	14.8	13.3	11.0	20.2	12.1	22.8	10.4
17	16.5	27.6	22.0	9.3	11.5	15.7	13.6	13.8	13.5	13.5	25.2	11.4
18	19.3	19.8	17.8	20.4	16.0	15.1	12.0	13.2	15.0	14.4	9.2	6.9
19	16.7	10.0	21.3	43.0	18.2	15.0	13.9	12.8	12.6	16.2	6.2	6.5
20	15.2	17.5	19.0	38.9	15.1	16.2	13.8	15.3	17.8	12.2	5.1	4.2
21	13.5	12.5	11.8	24.5	16.5	10.7	17.6	11.5	18.0	11.0	7.2	9.4
22	6.6	13.9	10.1	18.7	10.0	12.3	15.1	13.4	20.2	11.8	9.5	13.7
23	8.0	11.2	12.9	22.0	15.1	15.2	11.0	10.9	25.7	11.8	11.2	5.6
24	6.5	9.4	7.0	20.8	17.9	18.5	10.0	16.2	23.6	20.2	13.5	6.7
25	6.4	14.0	17.7	15.2	13.3	22.0	14.8	25.1	20.2	20.8	15.2	9.5
26	7.8	9.0	19.5	9.9	24.1	20.7	17.7	22.7	15.2	12.7	7.6	10.7
27	9.2	15.8	26.0	19.8	19.5	23.1	17.1	19.1	16.4	22.3	13.1	17.0
28	6.3	13.8	27.1	18.0	11.7	20.8	12.5	13.0	24.7	13.1	15.8	7.5
29	12.8	17.1	21.2	16.8	18.2	19.8	13.3	7.1	30.2	12.6	14.6	8.6
30	18.2	—	13.7	20.6	14.7	19.3	16.6	13.0	19.8	25.7	8.4	22.8
31	10.0	—	14.8	—	17.8	—	14.0	15.8	—	13.0	—	9.1
Mean	11.1	12.8	18.6	18.3	17.4	17.7	15.1	15.2	16.9	16.1	13.8	10.2

WIND VELOCITY

(Kilometres per Hour)

Deviation from Monthly Means for every Hour

1944

Month	HOURS OF OBSERVATIONS																							Mean of Month	
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Midn.	
January	-3.2	-2.0	-2.0	-3.3	-2.0	-2.8	-2.2	-2.9	-1.4	-2.2	+3.2	+2.8	+5.2	+4.7	+5.6	+5.0	+3.1	+0.9	+0.0	-0.3	-1.7	-2.7	-3.4	11.1	
February	-2.3	-3.1	-3.4	-3.0	-1.6	-3.4	-3.7	-4.4	-4.0	-4.0	+2.4	+2.6	+3.7	+4.8	+5.1	+4.7	+3.1	+0.5	-0.2	+0.3	+1.1	+2.1	+1.3	+0.6	12.8
March	+1.1	-0.8	-2.2	-4.3	-4.2	-5.4	-4.5	-6.3	-4.4	-5.6	+0.2	-0.3	+1.2	+2.4	+4.0	+3.5	+2.1	+0.9	-0.1	+1.9	+4.5	+6.6	+5.6	+3.0	18.6
April	-2.7	-5.7	-5.5	-4.3	-5.8	-7.1	-8.2	-5.7	-3.8	-4.9	+1.1	+0.2	+1.9	+3.1	+3.9	+3.7	+3.9	+3.4	+4.0	+7.4	+8.3	+8.4	+3.8	-0.2	18.3
May	-2.4	-3.2	-5.3	-4.5	-7.4	-8.2	-7.3	-5.2	-5.5	-5.5	+0.3	+0.2	+2.1	+3.3	+4.1	+5.2	+6.4	+6.3	+6.2	+8.4	+7.2	+4.1	+1.4	-1.8	17.4
June	-1.6	-3.8	-5.6	-7.3	-7.1	-8.2	-9.7	-7.1	-5.3	-3.2	-0.3	0.0	+1.4	+3.3	+3.8	+4.6	+5.0	+4.8	+5.9	+7.3	+8.7	+6.8	+4.4	+3.0	17.7
July	-2.6	-5.0	-6.7	-7.9	-9.3	-9.8	-9.3	-6.2	-4.3	-3.7	0.0	+1.4	+2.8	+4.8	+5.8	+7.0	+7.0	+6.9	+6.9	+7.3	+7.2	+5.5	+2.0	-0.7	15.1
August	-1.7	-2.6	-4.7	-6.4	-7.7	-9.1	-8.9	-7.3	-5.9	-4.0	+0.7	+0.7	+2.5	+4.3	+4.3	+5.0	+5.2	+5.8	+5.8	+6.5	+7.6	+6.0	+3.0	+0.3	15.2
September . . .	-0.1	-3.4	-5.8	-6.4	-5.8	-6.6	-7.7	-5.6	-3.5	-1.6	+1.4	+2.0	+2.9	+2.7	+3.0	+3.9	+3.6	+3.1	+3.0	+5.2	+6.0	+5.2	+3.0	+1.7	16.9
October	+2.3	-2.3	-5.0	-4.5	-5.9	-6.8	-8.1	-7.5	-5.0	-1.7	+0.4	-0.2	+0.2	+1.6	+1.8	+2.0	+2.0	+0.4	+1.1	+4.6	+7.0	+8.5	+7.9	+6.3	16.1
November	-2.0	-3.8	-3.9	-6.0	-5.4	-4.8	-3.9	-4.2	-2.1	-0.7	+4.1	+4.6	+5.0	+4.3	+5.1	+3.7	+2.0	+0.9	+2.0	+1.7	+1.6	+0.9	+1.0	+0.7	13.8
December	-1.3	-2.4	-3.3	-2.7	-3.8	-3.4	-3.1	-2.3	-2.8	-1.9	+1.3	+2.3	+2.7	+4.1	+4.2	+4.1	+1.9	+0.6	+1.0	+1.5	+0.8	+1.1	+0.9	+0.6	10.2
Mean	-1.4	-3.2	-4.5	-5.1	-5.5	-6.3	-6.4	-5.4	-4.0	-3.3	+1.2	+1.3	+2.6	+3.6	+4.2	+4.3	+3.7	+2.8	+3.0	+4.3	+4.9	+4.4	+2.6	+0.8	15.3

CLOUDS (scale 0—10)

1944

January

Date	Hours of Observation					Mean
	8	11*	14	17*	20	
1	10 Sc.,St.	8 Ac.,As.	8 Ac.,As.	10 Ac.,As.	6 Ac.	8·0
2	8 Ci.	2 Ci.,Ac.	5 Ci.	3 Ac.	7 Ci.	6·7
3	10 Ac.	10 Ac.	10 Ac.	10 Ac.,Se.	10 Ac.	9·0
4	6 Ac.	2 Ae.	1 Cu.	0 —	0 —	2·3
5	0 —	0 —	1 Cu.	0 —	0 ·3	5
6	1 Ci.	2 Ae.	2 Ac.	0 —	1 ·0	6
7	10 Sc.	8 Ci.,Cc.	8 Ci.,Cc.	10 Cs.	9 ·3	7
8	7 Ci.,Cs.	1 Ci.	4 Ci.	0 —	3 ·7	8
9	2 Se.,Cu.	4 Sc.,Cu.	5 Se.,Cu.	8 Se.	5 ·0	9
10	10 Sc.	10 Sc.	8 Sc.	10 Sc.	9 ·3	10
11	0 —	0 —	9 Sc.	10 Sc.	9 ·3	11
12	10 Ac.,As.	10 Ac.	9 Ac.,Cu.	7 Ac.,St.	1 Ac.	6 ·7
13	0 —	2 Cu.	9 Ac.,Cu.	9 Ac.,St.	6 Ac.	5 ·0
14	8 Ac.	9 Sc.	10 Se.	10 Cb.	9 ·3	13
15	9 Sc.	3 Ci.,Ac.	9 Sc.,Ca.	8 Sc.	8 ·7	15
16	9 Ci.,Ac.	5 Ci.,Ac.	10 Sc.,Cu.	9 Ac.,Se.	9 ·0	16
17	7 Sc.	9 Sc.	3 Ac.	4 Ac.,Se.	6 ·3	17
18	10 Ac.	9 Ac.	9 Sc.,Cu.	10 Ac.,St.	6 ·3	18
19	1 Ac.	0 —	6 Cu.	0 —	2 ·3	19
20	0 —	0 —	10 Cb.	10 Cb.	3 ·3	20
21	10 Cb.,St.	6 Cu	9 Cu.	4 Ac.	6 ·3	21
22	10 Ac.,Se.	9 Ac.,Se.	10 Ac.,Se.	10 Ac.	10 ·0	22
23	9 Sc.	6 Cu.	10 Ac.,Se.	5 Ac.,Se.	7 ·7	23
24	0 —	6 Ci.,Cu.	8 Ac.,Ca.	4 Cu.	2 ·7	24
25	0 —	0 —	3 Cu.	2 Cu.	1 ·0	25
26	0 —	1 Ac.	2 Cu.	2 Ac.,Cu.	0 ·7	26
27	3 Ac.	3 Cu.	1 Ac.	2 Ci.,Ac.	1 ·3	27
28	7 Ac.	4 Ac.	4 Ac.,Cu.	3 Ac.	4 ·7	28
29	0 —	0 —	10 Ac.,Cb.	7 Ac.,Cb.	4 Ac.	4 ·7
30	10 St.	2 Ac.	10 Ac.,Cb.	8 Ac.,Se.	10 ·0	29
31	5 Ns.	2 Ac.	9 Ac.,Cu.	7 Ac.	7 ·0	
Mean	5·5	4·3	6·5	5·5	3·9	5·3

February

Date	Hours of Observation					Mean
	8	11*	14	17*	20	
1	3 Ac.	7 Ac.	8 Ac.,Cu.	10 Ac.,Sc.	10 Ac.,Sc.	7·0
2	0 —	0 —	9 Sc.,Ns.	10 Sc.	10 Sc.	9·7
3	10 Ac.	10 Ac.	10 Ac.	10 Ac.	10 Ac.	5·3
4	6 Ac.	2 Ae.	1 Cu.	0 —	3 Cu.	1·0
5	0 —	0 —	1 Cu.	0 —	9 Sc.	3·7
6	1 Ci.	2 Ae.	2 Ac.	0 —	10 Ac.,Sc.	0 ·0
7	10 Sc.	8 Ci.,Cc.	8 Ci.,Cc.	10 Cs.	10 Sc.	0 ·0
8	7 Ci.,Cs.	1 Ci.	4 Ci.	0 —	0 —	0 ·0
9	2 Se.,Cu.	4 Sc.,Cu.	5 Se.,Cu.	8 Se.	8 Ac.	0 ·0
10	10 Sc.	10 Sc.	8 Sc.	10 Sc.	10 Sc.	0 ·0
11	0 —	0 —	9 Sc.	10 Sc.	10 Sc.	0 ·0
12	10 Ac.,As.	10 Ac.	9 Ac.,Cu.	7 Ac.,St.	1 Ac.	0 ·0
13	0 —	2 Cu.	9 Ac.,Cu.	9 Ac.,St.	6 Ac.	0 ·0
14	8 Ac.	9 Sc.	10 Se.	10 Cb.	9 ·3	14
15	9 Sc.	3 Ci.,Ac.	9 Sc.,Ca.	8 Sc.	8 ·7	15
16	9 Ci.,Ac.	5 Ci.,Ac.	10 Sc.,Cu.	9 Ac.,Se.	9 ·0	16
17	7 Sc.	9 Sc.	3 Ac.	4 Ac.,Se.	3 ·3	17
18	10 Ac.	9 Ac.	9 Sc.,Cu.	10 Ac.,St.	6 Ac.	10 ·0
19	1 Ac.	0 —	6 Cu.	0 —	6 Ci.	2 ·3
20	0 —	0 —	10 Cb.	10 Cb.	3 Ci.	1 ·3
21	10 Ac.,As.	10 Ac.	9 Ac.,As.	10 Ac.	10 Ac.,As.	10 As.
22	9 Sc.	6 Cu.	10 Ac.,Se.	5 Ac.,Se.	9 Ac.,As.	9 ·7
23	0 —	0 —	4 Sc.,St.	7 Ac.,St.	6 Ac.	10 Ac.,As.
24	10 Sc.	10 Sc.	8 Sc.	10 Sc.	10 Sc.	10 As.
25	0 —	0 —	7 Ac.	10 Ac.	10 Ac.	10 As.
26	0 —	0 —	6 Ac.	10 Ac.	10 Ac.	10 As.
27	0 —	0 —	5 Ac.	10 Ac.	10 Ac.	10 As.
28	0 —	0 —	4 Sc.	10 Ac.	10 Ac.	10 As.
29	0 —	0 —	3 Sc.	10 Ac.	10 Ac.	10 As.
30	10 St.	2 Ac.	10 Ac.,Cb.	8 Ac.,Se.	10 Ac.,Cb.	10 Ac.
31	5 Ns.	2 Ac.	9 Ac.,Cu.	7 Ac.	7 Ac.	7 Ac.
Mean	2·5	2·5	2·5	2·5	2·5	2·6

March

Date	Hours of Observation					Mean
	8	11*	14	17*	20	
1	0 —	4 Ci.	9 Ci.	9 Ci.,Ac.	9 Ac.	6·0
2	0 —	1 Ac.	8 Ci.	10 Ac.,As.	6·0	2
3	7 Ci.	9 Ci.	10 Ci.,Ac.	10 As.	9·0	3
4	0 —	8 Ac.,Cu.	7 Cu.	1 Ac.,Cu.	0 —	2·3
5	0 —	1 Cu.	0 —	0 —	0 —	0 ·0
6	0 —	0 —	0 —	0 —	0 ·0	0 ·3
7	3 Cu.	0 —	0 —	0 —	1 ·0	7
8	0 —	4 Ci.	0 —	0 —	0 ·0	8
9	5 Ci.	5 Ci.,Cu.	1 Ci.	0 —	2 ·3	9
10	1 St.	0 —	0 —	0 —	0 ·3	10
11	0 —	0 —	1 Ci.	0 —	0 ·0	11
12	0 —	0 —	9 Ac.,As.	3 Ac.	3 ·0	12
13	10 Ci.,St.	8 Ac.,As.	9 Ac.,As.	8 Ci.,Ac.	6 ·3	13
14	5 Ac.	6 Ac.,As.	2 Cc.,Cu.	0 —	2 ·3	14
15	0 —	0 —	0 —	0 —	0 ·0	15
16	0 —	0 —	0 —	0 —	0 ·0	16
17	9 Ac.,Ns.	8 Ac.,As.	7 Ac.	2 Ac.	5 ·3	17
18	3 St.	0 —	1 Cu.	0 —	1 ·3	18
19	1 Cu.	1 Cu.	2 Cu.	4 Ac.,Cu.	1 ·0	19
20	0 —	0 —	0 —	0 —	0 ·0	20
21	6 Ci.,Ac.	7 Ci.,Ac.	10 Ci.,Ac.,Se	8 As.,Cb.,St	5 ·3	21
22	0 —	0 —	0 —	0 —	0 ·0	22
23	1 Ci.	0 —	0 —	0 —	0 ·3	23
24	1 Ci.,Ac.	2 Ci.	0 —	6 Ci.	3 Ci.	24
25	5 St.	0 —	0 —	0 —	1 ·7	25
26	0 —	0 —	6 Ci.	5 Ci.,St.	3 ·0	26
27	10 Ac.,As.	10 Ac.,As.	8 Ac.,As.	10 Ac.,As.	9 ·3	27
28	0 —	9 Ac.,As.	10 Sc.	10 Ac.,Se.	6 ·7	28
29	0 —	0 —	7 Ac.,Cu.	10 Se.	3 ·3	29
30	0 —	3 Ac.,Cu.	1 Cu.	0 —	0 ·3	30
31	0 —	0 —	0 —	0 —	0 ·0	
Mean	2·2	2·8	3·5	3·1	1·9	2·5

April

Date	Hours of Observation					Mean
	8	11*	14	17*	20	
1	0 —	0 —	0 —	0 —	0 —	0 ·0
2	6 Ci.	3 Ci.	0 —	3 Ac.,Cu.	0 —	3·3
3	0 —	0 —	1 Cu.	0 —	3 Ac.,Cu.	0 ·3
4	4 Ci.	7 Ci.,Ac.	0 —	8 Ac.,As.	4 Ci.	1·3
5	6 Ci.,Ac.	8 Ac.,As.	5 Ci.,Ac.,As.	8 Ac.,As.	7 Ci.,Ac.	7 ·3
6	8 Ac.,As.	8 Ce.,Cu.	1 Cu.	8 Cu.,St.	5 Cu.	2 ·7
7	5 Cu.	7 Cu.	0 —	8 Cu.,St.	5 Cu.	5 ·0
8	8 Cu.,Ch.	8 Cu.,Ch.	9 Cu.	8 Cu.,Ch.	8 Cu.,Ch.	4 Cu.
9	4 Cu.	4 Cu.	9 Cu.	8 Cu.,Ch.	8 Cu.,Ch.	5 ·7
10	3 Cu.	3 Cu.	9 Cu.	8 Cu.,Ch.	8 Cu.,Ch.	3 Cu.
11	3 Cu.	3 Cu.	9 Cu.	8 Cu.,Ch.	8 Cu.,Ch.	3 Cu.
12	3 Cu.	3 Cu.	9 Cu.	8 Cu.,Ch.	8 Cu.,Ch.	3 Cu.
13	3 Cu.	3 Cu.	9 Cu.	8 Cu.,Ch.	8 Cu.,Ch.	3 Cu.
14	3 Cu.	3 Cu.	9 Cu.	8 Cu.,Ch.	8 Cu.,Ch.	3 Cu.
15	3 Cu.	3 Cu.	9 Cu.	8 Cu.,Ch.	8 Cu.,Ch.	3 Cu.
16	3 Cu.	3 Cu.	9 Cu.	8 Cu.,Ch.	8 Cu.,Ch.	3 Cu.
17	3 Cu.	3 Cu.	9 Cu.	8 Cu.,Ch.	8 Cu.,Ch.	3 Cu.
18	3 Cu.	3 Cu.	9 Cu.	8 Cu.,Ch.	8 Cu.,Ch.	3 Cu.
19	3 Cu.	3 Cu.	9 Cu.	8 Cu.,Ch.	8 Cu.,Ch.	3 Cu.
20	3 Cu.	3 Cu.	9 Cu.	8 Cu.,Ch.	8 Cu.,Ch.	3 Cu.
21	6 Ci.	6 Ci.	9 Ci.	9 Ci.,Cs.	6 Ci.	4 ·7
22	2 Ci.	2 Ci.	9 Ci.	9 Ci.,Cs.	2 Ci.	3 ·0
23	7 Ci.	7 Ci.	9 Ci.	9 Ci.,Cs.	7 Ci.	4 ·0
24	7 Ci.	7 Ci.	9 Ci.	9 Ci.,Cs.	7 Ci.	5 ·7
25	1 Ci.	1 Ci.	9 Ci.	9 Ci.,Cs.	1 Ci.	0 ·0
26	1 Ci.	1 Ci.	9 Ci.	9 Ci.,Cs.	2 Ci.	0 ·7
27	7 Ci.	7 Ci.	9 Ci.	9 Ci.,Cs.	2 Ci.	2 ·7
28	1 Ci.	1 Ci.	9 Ci.	9 Ci.,Cs.	1 Ci.	1 ·3
29	0 —	0 —	0 —	0 —	0 —	0 ·3
30	0 —	0 —	0 —	0 —	0 —	0 ·0
31	0 —	0 —	0 —	0 —	0 —	0 ·0
Mean	3·5	2·8	3·3	3·3	2·5	2·6

* Additional observations not used in the daily mean.

CLOUDS (scale 0—10) (Contd.)

1944

Date	May					Mean	June					Mean		
	Hours of Observation						Hours of Observation							
	8	11*	14	17*	20		8	11*	14	17*	20			
1	9 Ac., As.	9 Ns.	10 Ns.	7 Ac., As., Gb	10 Ns.	9.7	1	2 Cu.	0	0	0	0.7		
2	1 Cu.	4 Ac., Cu.	8 Ac., Cu.	7 Cu., St.	3 Ac.	4.0	2	2 Cu.	0	0	0	0.7		
3	2 Ac.	2 Ac., Cu.	3 Cu.	1 Cu.	0	1.7	3	0	0	0	0	0.0		
4	0	8 Cu.	9 Ac., Cu., Gb	4 Cu., Cb	0	3.0	4	0	0	0	0	0.0		
5	0	1 Cu.	2 Cu.	0	0.7	5	0	0	0	0	0	0.0		
6	0	—	0	0	0.0	6	0	0	0	0	0	0.0		
7	0	—	0	0	0.0	7	0	0	0	0	0	0.0		
8	2 Cu.	0	0	0	0.7	8	0	0	0	0	0	0.0		
9	0	2 Ac.	2 Ac., Cu.	4 Ci., Ac., Cu.	3 Ac.	1.7	9	1 Ci.	0	0	0	1.7		
10	1 Ci., Ac.	2 Ci., Ac.	9 Sc., Cu.	7 Ci., Ac.	0	3.3	10	3 Cu.	5 Ac.	6 Ci., Ac.	1 Ac.	3.7		
11	5 St.	0	0	0	0	1.7	11	4 Ac.	0	2 Ci., Ac.	0	2.0		
12	0	—	0	0	0	0.0	12	0	0	0	4 Cs.	1.7		
13	0	—	0	0	0	0.0	13	0	0	0	1 Sc.	0.3		
14	0	—	0	0	0	0.0	14	1 Ci.	0	0	0	0.3		
15	0	—	7 Ac.	0	4 Ac., As.	3.7	15	0	0	0	1 Ac.	0		
16	4 Sc.	0	0	0	0	1.3	16	0	0	0	0	0.0		
17	0	—	0	7 Ci., Ac.	7 Ci., Cu.	4.0	17	0	0	0	0	0.0		
18	0	—	0	4 Ac., Cu.	3 Ac., Cu.	2.0	18	0	0	0	0	0.0		
19	0	—	0	0	0	0.0	19	0	0	0	0	0.0		
20	0	—	0	0	0	1 Ci.	0.3	20	0	0	0	0.0		
21	0	—	0	0	0	0.0	21	0	0	0	0	0.0		
22	0	—	5 Ac.	0	0	0.0	22	0	0	0	0	0.0		
23	0	—	0	7 Ci., Ac.	8 Ci.	5 Ac., As.	4.0	23	0	0	0	0.0		
24	0	—	0	0	0	0.0	24	0	0	0	0	0.0		
25	0	—	0	0	0	0.0	25	0	0	0	0	0.0		
26	3 Ci.	5 Ci.	7 Ci.	3 Ci.	0	3.3	26	0	0	0	0	0.0		
27	6 Cu.	4 Cu.	0	0	0	2.3	27	1 Sc.	0	0	0	0.3		
28	1 Cu.	0	0	0	0	0.3	28	6 Cu.	0	0	0	2.0		
29	0	—	3 Ac., Cu.	1 Cu.	3 Cu.	0.3	29	9 Se.	0	0	0	3.0		
30	0	—	3 Ac., Cu.	5 Cu.	1 Cu.	1.7	30	0	0	0	0	0.0		
31	3 Cu.	0	0	0	0	1.0								
Mean	1.2	1.5	2.6	1.8	1.1	1.6	Mean	1.0	0.2	0.4	0.3	0.5		
												0.6		

July

Date	Hours of Observation					Mean	Hours of Observation					Mean
	8	11*	14	17*	20		8	11*	14	17*	20	
	0	—	0	—	0		0	—	0	—	0	
1	4 Cu.	0	—	0	—	1.3	1	8 Sc., Cu.	0	—	0	2.7
2	0	—	0	—	0	0.0	2	2 St.	0	—	0	0.7
3	0	—	0	—	0	0.0	3	0	—	0	0	0.0
4	0	—	0	—	0	0.0	4	0	—	0	0	0.0
5	3 St.	0	—	0	—	1.0	5	1 St.	0	—	0	2.3
6	0	—	0	—	0	0.0	6	0	—	1 Cu.	0	0.0
7	0	—	0	—	0	0.0	7	8 Cu.	0	—	0	2.7
8	1 Cu.	0	—	0	—	0.3	8	3 Cu.	0	—	0	1.0
9	9 Sc., St.	0	—	0	—	3.0	9	2 Cu.	0	—	0	0.7
10	7 Sc., Cu.	0	—	0	—	2.3	10	6 Cu.	0	—	0	2.0
11	0	—	0	—	0	0.0	11	1 Cu.	0	—	0	0.3
12	0	—	0	—	0	0.0	12	0	—	0	0	0.0
13	4 Sc.	0	—	0	—	1.3	13	0	—	0	0	0.0
14	2 Ci.	1 Ci., Cu.	2 Cu.	0	—	1.3	14	0	—	1 Ci.	3 Ci.	0.3
15	3 Cu.	1 Ac.	0	—	4 Ci., Ac.	2.3	15	0	—	0	0	0.0
16	8 Ac., Cu.	7 Ac., Cu.	5 Cu.	2 Cu.	3 Ci.	5.3	16	0	—	0	0	0.0
17	4 Sc., Cu.	1 Cu.	0	—	0	1.3	17	0	—	0	0	0.0
18	0	—	0	—	0	0.0	18	8 Cu.	0	—	0	2.7
19	0	—	0	—	0	0.3	19	0	—	0	0	0.0
20	0	—	0	—	0	0.0	20	0	—	0	0	0.0
21	2 Cu.	0	—	0	—	0.7	21	0	—	0	0	0.0
22	1 Cu.	0	—	0	—	0.3	22	1 Ci., St.	0	—	0	0.3
23	3 Sc., Cu.	0	—	0	—	1.0	23	0	—	3 Cu.	3 Cu.	1.0
24	0	—	0	—	0	0.0	24	0	—	1 Ac.	0	0.0
25	0	—	0	—	0	0.0	25	0	—	0	0	0.0
26	2 Cu.	0	—	0	—	0.7	26	0	—	0	0	0.0
27	9 Sc., Cu.	8 Sc., Cu.	1 Cu.	0	—	3.3	27	0	—	2 Cu.	4 Cu.	2.0
28	9 Sc., Cu.	0	—	2 Cu.	3 Cu.	1 Ac.	4.0	28	0	—	4 Ac.	3.7
29	0	—	0	—	0	0.0	29	0	—	4 Cu.	4 Ac., Cu.	1.3
30	1 St.	0	—	0	—	0.3	30	5 St	8 Cu., St.	4 Ac., Cu.	3 Cu.	3.0
31	1 St.	0	—	0	—	0.3	31	3 Cu.	1 Cu.	1 Cu.	1 Cu.	1.3
Mean	2.4	0.6	0.3	0.2	1.3	1.0	Mean	1.5	0.5	0.7	0.8	0.3
												0.0

* Additional observations not used in the daily mean.

CLOUDS (scale 0-10) (Contd.)

1944

September

October

Date	Hours of Observation					Mean	Date	Hours of Observation					Mean
	8	11*	14	17*	20			8	11*	14	17*	20	
1	2 Cu.	1 Cu.	3 Cu.	0	0	1.7	1	0	0	0	0	0	0.0
2	0	0	0	0	0	0.0	2	1 Ci.	0	0	0	0	0.3
3	2 Cu.	0	0	0	0	0.7	3	5 St.	0	2 Cu.	1 Cu.	1 Cu.	2.3
4	0	0	0	0	0	0.0	4	0	1 Cu.	1 Cu.	1 Cu.	0	0.3
5	2 Sc.	0	0	0	0	0.7	5	2 Sc., Cu.	0	0	1 Ac.	0	0.7
6	4 St.	0	0	0	0	1.3	6	0	1 Cu.	0	0	0	0.0
7	5 St.	0	0	0	0	1.7	7	3 Ac.	0	0	0	0	1.0
8	8 Cu.	0	0	0	0	2.7	8	2 Sc., Gu.	3 Ci.	7 Ci.	9 Gi.	0	3.0
9	8 St.	0	0	0	0	2.7	9	5 Ci., Ac.	6 Ci., Ce.	2 Ci., Ce.	0	0	3.7
10	2 St.	0	0	0	0	0.7	10	7 Gi., Ac.	8 Gi., Ac.	7 Gi., Ac.	0	0	5.0
11	0	0	0	0	0	0.0	11	8 Gi., Ge.	9 Gi., & Ge.	9 Gi., & Ge.	0	0	5.7
12	2 St.	0	0	0	0	0.7	12	0	1 Ci.	8 Gi.	0	0	0.3
13	0	0	0	0	0	0.0	13	2 Gi.	4 Cu.	3 Cu.	6 Se., Cu.	0	1.7
14	0	0	0	0	0	0.0	14	0	5 Cu., & St.	1 Cu.	0	0	0.3
15	2 Cu.	4 Cu.	6 Cu.	5 Cu.	0	2.7	15	0	0	0	0	0	0.0
16	8 Cu., St.	6 Cu.	8 Cu.	6 Cu.	2 Sc.	6.0	16	0	0	2 Ci., Ac.	7 Ac., Ch., St.	0	0.7
17	6 Cu.	3 Cu.	2 Cu.	1 Cu.	0	2.7	17	0	4 Cu.	2 Cu.	0	0	0.7
18	3 Cu.	5 Cu.	1 Ac.	0	0	1.3	18	0	5 Ac., & Cu.	6 Ci., Cu.	4 Gi., Ac.	0	2.0
19	0	4 Cu.	5 Cu.	2 Cu.	0	1.7	19	8 Gi.	9 Gs., & Cu.	9 Gs., & Cu.	8 Gi., Ac.	0	5.7
20	0	4 Cu.	5 Cu.	4 Cu.	0	1.7	20	1 Ci.	0	1 Ci.	0	0	0.7
21	0	0	0	0	0	0.0	21	1 Ac.	0	0	0	0	0.3
22	0	0	0	0	0	0.0	22	0	3 Cu.	1 Cu.	0	0	0.3
23	0	2 Cu.	0	0	0	0.0	23	0	5 Cu.	1 Cu.	0	0	0.3
24	0	0	0	0	0	0.0	24	0	0	0	0	0	0.0
25	0	0	0	0	0	0.0	25	2 Ac.	2 Ac.	8 Gi.	6 Gi., Ac.	8 Gi.	6.0
26	5 St.	0	0	0	0	1.7	26	1 Ac.	0	0	0	0	0.3
27	0	0	0	0	0	0.0	27	0	0	1 Ci.	0	0	0.0
28	0	0	0	0	0	0.0	28	6 Gi.	8 Gi.	10 Cs., Ac.	10 Cs., Ac.	8.7	
29	0	0	0	0	0	0.0	29	2 Gi., Ac.	0	0	0	0	0.7
30	0	0	0	0	3	0.0	30	7 Ac.	5 Gi.	3 Gi., Ac., Cu.	6 Ac., As.	3 Gi., Ac., Cu.	4.3
	Mean	2.0	1.0	1.0	0.6	0.1	Mean	2.3	2.9	2.9	2.8	1.0	2.1

November

December

Date	Hours of Observation					Mean	Date	Hours of Observation					Mean
	8	11*	14	17*	20			8	11*	14	17*	20	
1	8 Ac.	10 Ac.	7 Ci., Ac.	4 Gi., Ac., Sc.	2 Ac.	5.7	1	0	0	0	0	0	0.0
2	0	0	0	1 Ac.	0	0.0	2	0	0	0	0	0	0.0
3	3 Cu.	0	0	5 Ce.	2 Ce.	1.7	3	0	0	3 Ce., Ac., Cu.	10 Ns.	0	1.0
4	8 Ci., Se.	4 Ci.	8 Gi., Ce., Ac.	8 Gs., Ac.	0	5.3	4	0	1 Ci.	8 Sc., Cu.	9 Sc., Cu.	5.7	
5	8 Ac.	7 Ci., Ac.	7 Ci., Ac.	7 Ac.	8 Ac.	7.7	5	9 Sc.	8 Se.	7 Cb.	7 Cb.	0	5.3
6	10 Sc.	10 Sc., Ch.	10 Sc., Ch.	10 Ac., Sc., St.	6 Ac., Sc.	8.7	6	0	0	1 Cu.	0	0	0.3
7	3 Ac., Cu.	10 Cu., Ch.	9 Sc., Cu., Ch.	6 Sc., Ch.	0	4.0	7	9 Gi., Ac.	10 Ac., As.	10 Ac., As.	10 Ac.	8 Ac.	9.0
8	3 Ac.	4 Ac., Cu.	6 Cu.	0	0	3.0	8	10 As.	9 Ac., As.	10 As.	10 As.	9 Ac., As.	9.7
9	0	1 Ci.	0	0	0	0.3	9	0	0	0	0	0	0.0
10	0	0	0	2 Ac.	0	0.0	10	0	0	0	0	0	0.0
11	0	1 Cu.	3 Cu.	0	0	1.0	11	0	7 Ci.	8 Ci.	10 As.	0	2.7
12	0	1 Ci.	9 Cs.	9 Ci., Cs.	7 Ci., Cs.	5.3	12	0	4 Gi.	8 Cu., Ch.	4 Gi., Ch.	0	2.7
13	0	2 Ci., Ac.	7 Ce.	5 Ac.	0	2.3	13	7 St.	7 Cu.	10 Ch.	8 Ch.	0	5.7
14	0	2 Ci.	4 Ci., Cu.	8 Ci., Cs.	0	1.3	14	10 St.	3 Cu.	1 Ci., Ac.	0	4.3	
15	4 Ac., Cu.	8 Cu.	5 Cu.	2 Sc., Cu.	0	3.0	15	0	0	2 Ci.	0	0	0.7
16	0	5 Cu.	7 Cu.	0	0	2.3	16	0	1 Cu.	3 Ci., Cu.	3 Ci.	0	1.0
17	0	4 Cu.	4 Cu.	2 Ac., Cu.	0	1.3	17	1 Ac.	2 Cu.	6 Cu.	0	2.3	
18	0	6 Cu.	2 Sc., Cu.	0	0	2.0	18	14 Gi.	8 Gi., Ac., Cu.	8 Gi., Cu.	2 Ac.	0	3.0
19	0	9 Ac., Cu.	8 Cu.	3 Cu.	0	2.7	19	4 Gi.	8 Gi., Cu.	10 Sc., St.	10 Sc., St.	7.3	
20	10 Ns.	10 Sc., Cu.	9 Ac., Cu., Ch.	10 Ac., Sc., Ch.	3 Sc., St.	7.3	20	6 Ac.	9 Ac.	9 Ac., As., Sc.	10 Ac.	5 Ac.	6.7
21	10 Sc.	4 Cu., St.	1 Ci.	0	0	3.7	21	6 St.	4 St.	2 Cu.	5 Cb.	9 Sc.,	5.7
22	6 Ci.	8 Ci., Ge.	10 Ac., As.	9 Ac., Sc.	10 As.	8.7	22	0	2 Ci., Cu.	6 Ci., Cu.	6 Ci., Ac.	0	2.0
23	1 Ac.	0	0	2 Sc.	10 Ac., Ch.	3.7	23	2 Ce., Ac.	3 Ac.	7 Cb.	7 Cu., Ch.	6 Cu.	5.0
24	0	2 Cu.	8 Gi., Ac., Cu.	5 Ci., Ac.	2 Ac.	3.3	24	7 Ci.	8 Ac.	8 Ac., As.	7 Ac., As.	8 Ac.	7.7
25	8 Ac.	9 Sc.	10 Ac.	10 Ac.	10 Ns.	9.3	25	0	3 Ac.	8 Cu., Ch.	4 Cu.	0	2.7
26	8 Ac., Cu.	2 Cu.	3 Cu.	2 Cu.	0	3.7	26	1 Ac.	0	1 Ac.	8 Ac.	3.0	
27	0	1 Ci., Cu.	9 Ci., Cu.	7 Gi., Ac., Cu.	9 Ci.	6.0	27	0	0	0	0	0	0.0
28	2 Ci., Ac.	4 Gi., Cu.	5 Cu.	3 Cu.	0	2.3	28	1 Ci.	7 Gi.	9 Gi., Ce., Cu.	10 Cc., Cs.	6.7	
29	0	3 Cu.	5 Cu.	3 Cu.	0	1.7	29	10 As.	10 As.	10 Ns.	10 Ns.	10 Ns.	10.0
30	0	7 Ci., Cu.	4 Ci., Cu.	7 Ac.	7 Ac.	4.7	30	10 Ns.	10 Ns.	10 Ns.	10 Ns.	10 Ns.	10.0
	Mean	3.1	4.0	5.6	4.3	2.5	Mean	3.4	4.4	5.6	5.3	3.6	4.2

* Additional observations not used in the daily mean

ACTINOMETRIC OBSERVATIONS**Daily at 14h.—1, Bright Bulb; 2 Black Bulb; 3, Difference****1944**

Days of Month	January			February			March			April			May			June		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
1	28.6	39.7	11.1	24.2	30.0	5.8	40.0	58.0	18.0	42.5	61.4	18.9	Rain	Rain	42.0	59.2	17.2	
2	30.5	49.2	18.7	24.3	29.0	4.7	42.4	59.4	17.0	36.1	53.4	17.3	38.0	56.0	18.0	41.9	58.3	16.4
3	30.0	41.4	11.4	31.9	42.2	10.3	28.0	39.0	11.0	31.1	49.8	18.7	36.4	54.7	18.3	42.5	59.0	16.5
4	30.0	48.5	18.5	30.9	42.2	11.3	30.9	48.8	17.9	33.3	52.3	19.0	35.2	52.0	16.8	44.8	60.5	15.7
5	29.1	48.8	19.7	27.0	42.6	15.6	34.8	54.4	19.6	32.6	45.0	12.4	34.6	52.4	17.8	48.3	63.7	15.4
6	28.5	44.2	15.7	31.5	50.6	19.1	39.4	59.3	19.9	40.9	55.8	14.9	36.8	53.0	16.2	50.8	67.5	16.7
7	23.6	32.9	9.3	32.9	51.8	18.9	36.2	56.5	20.3	33.4	47.6	14.2	39.3	56.0	16.7	53.7	71.5	17.8
8	26.5	42.5	16.0	31.5	50.8	19.3	34.0	53.4	19.4	34.0	52.2	18.2	41.4	57.1	15.7	46.9	63.1	16.2
9	25.6	43.9	18.3	29.5	51.0	21.5	36.4	54.8	18.4	34.1	51.7	17.6	44.2	60.5	16.3	45.8	63.3	17.5
10	27.3	42.5	15.2	29.8	50.8	21.0	37.0	55.4	18.4	39.9	55.1	15.2	Rain	Rain	49.9	68.7	18.8	
11	30.6	49.6	19.0	30.5	51.0	20.5	38.5	57.0	18.5	43.9	61.5	17.6	43.5	60.9	17.4	49.8	66.6	16.8
12	26.1	40.2	14.1	32.8	52.4	19.6	39.8	59.3	19.5	37.6	55.7	18.1	42.8	60.2	17.4	50.7	65.8	15.1
13	24.5	38.6	14.1	32.4	53.1	20.7	34.6	53.0	18.4	35.5	54.7	19.2	44.0	61.0	17.0	53.6	70.4	16.8
14	Rain	Rain	Rain	31.2	50.3	19.1	32.3	53.0	20.7	37.1	55.9	18.8	43.9	61.7	17.8	50.7	66.5	15.8
15	23.5	40.2	16.7	30.6	44.4	13.8	36.2	56.5	20.3	42.0	59.7	17.7	49.5	65.3	15.8	45.7	62.1	16.4
16	22.8	39.3	16.5	32.7	39.9	7.2	37.7	55.7	18.0	34.6	49.5	14.9	39.9	59.0	19.1	42.9	59.5	16.6
17	27.5	45.4	17.9	30.4	42.9	12.5	36.0	54.5	18.5	36.9	56.5	19.6	41.7	56.9	15.2	42.6	59.2	16.6
18	26.7	32.7	6.0	30.1	50.4	20.3	33.7	53.2	19.5	40.1	58.2	18.1	48.7	65.0	16.3	44.9	60.3	15.4
19	27.2	42.6	15.4	31.9	53.4	21.5	30.5	48.3	17.8	41.3	59.4	18.1	42.3	59.7	17.4	45.0	60.4	15.4
20	17.0	21.2	4.2	34.2	54.2	20.0	33.9	53.4	19.5	41.4	57.2	15.8	43.0	59.5	16.5	48.6	65.5	16.9
21	22.2	29.4	7.2	35.6	55.0	19.4	35.4	47.0	11.6	45.6	64.4	18.8	45.2	60.7	15.5	52.6	69.0	16.4
22	20.2	29.0	8.8	31.6	49.7	18.1	35.9	54.0	18.1	47.8	64.2	16.4	48.8	64.0	15.2	50.5	67.2	16.7
23	21.0	28.6	7.6	29.5	48.9	19.4	38.3	58.4	20.1	50.0	66.5	16.5	53.1	69.1	16.0	49.0	66.2	17.2
24	25.3	34.3	9.0	33.7	48.0	14.3	40.1	60.5	20.4	49.8	67.5	17.7	45.5	62.1	16.6	46.7	62.2	15.5
25	29.4	42.0	12.6	31.6	51.7	20.1	37.3	56.6	19.3	49.0	66.3	17.3	46.3	63.0	16.7	50.5	67.4	16.9
26	30.5	45.2	14.7	35.9	55.5	19.6	44.7	62.0	17.3	52.1	69.0	17.8	42.1	59.1	17.0	45.0	63.5	18.5
27	30.5	44.9	14.4	40.4	59.9	19.5	32.5	43.6	11.1	49.7	66.0	16.3	39.0	56.3	17.3	45.0	60.5	15.5
28	29.4	41.9	12.5	42.1	61.1	19.0	29.4	43.0	13.6	44.4	61.5	17.1	39.0	56.5	12.5	46.5	63.3	16.8
29	29.7	44.7	15.0	39.6	59.0	19.4	35.0	53.0	18.0	48.5	65.8	17.3	37.8	54.4	16.6	46.1	63.1	17.0
30	Rain	Rain	Rain	—	—	30.0	51.2	21.2	42.1	54.0	11.9	38.2	55.2	17.0	45.7	62.5	16.8	
31	26.4	36.2	9.8	—	—	30.5	55.4	18.9	—	—	39.5	55.7	16.2	—	—	—	—	
Mean	24.85	37.41	12.56	33.22	50.78	17.55	35.72	53.79	18.07	40.91	57.96	17.05	39.35	55.06	15.72	47.29	63.87	16.58

Days of Month	July			August			September			October			November			December		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
1	46.0	62.0	16.0	47.2	63.6	16.4	42.3	62.5	20.2	45.0	62.5	17.5	44.9	65.5	20.6	32.0	50.4	18.4
2	50.3	67.0	16.7	45.7	63.5	17.8	44.6	62.0	17.4	45.1	62.2	17.1	44.7	65.5	20.8	33.3	52.5	19.2
3	50.1	66.4	16.3	44.5	63.5	19.0	45.5	63.4	17.9	42.1	61.7	19.6	44.4	65.5	21.1	33.3	53.0	19.7
4	48.8	63.0	14.2	45.0	63.7	18.7	45.2	63.2	18.0	41.9	61.5	19.6	40.2	59.8	19.6	29.3	45.5	16.2
5	47.6	63.3	15.7	45.8	63.5	17.7	46.7	64.0	17.3	42.2	61.5	19.3	40.4	59.3	18.9	21.8	34.8	13.0
6	49.9	66.4	16.5	44.9	63.0	18.1	46.0	64.0	18.0	41.6	61.2	19.6	29.7	43.9	14.2	32.1	51.9	19.8
7	45.6	62.7	17.1	44.5	62.8	18.0	45.0	63.1	18.1	41.2	61.0	19.8	32.5	48.5	16.0	28.2	46.0	17.8
8	44.5	59.4	14.9	43.0	62.6	19.6	44.3	62.8	18.5	40.7	60.5	19.8	35.1	53.0	17.9	27.3	46.1	18.8
9	45.1	61.5	16.4	43.7	62.5	18.8	46.0	64.2	18.2	42.0	60.0	18.0	35.0	53.0	18.0	34.5	53.9	19.4
10	45.0	61.9	16.9	44.0	62.5	18.5	47.7	65.5	18.8	44.7	63.2	18.5	35.9	54.0	18.1	34.0	53.2	19.2
11	48.0	64.1	16.1	46.4	65.2	18.8	47.7	66.6	18.9	40.8	63.1	22.3	35.0	53.0	18.0	31.8	52.6	20.8
12	48.1	64.6	16.5	47.9	62.5	14.6	44.4	66.2	21.8	45.6	63.5	17.9	33.0	52.5	19.5	29.3	39.7	10.4
13	45.6	62.4	16.8	47.6	61.5	13.9	45.2	65.6	20.4	39.6	61.0	21.4	36.6	57.5	20.9	20.7	32.1	11.4
14	43.6	60.8	17.2	46.9	62.6	15.7	44.5	65.0	20.5	38.8	60.8	22.0	35.5	57.0	21.5	30.0	48.5	18.5
15	42.5	59.6	17.1	48.6	62.8	14.2	44.5	66.2	21.7	43.7	63.0	19.3	36.1	56.0	19.9	33.9	53.0	19.1
16	43.9	61.9	18.0	50.0	62.5	12.5	42.4	65.0	22.6	46.5	66.3	19.8	33.0	55.5	22.5	31.5	51.0	19.5
17	45.4	62.0	16.6	45.7	61.3	15.6	43.4	62.9	19.5	39.5	60.5	21.0	33.5	55.5	22.0	28.8	50.7	21.9
18	44.6	61.0	16.4	46.0	61.5	19.1	40.8	60.5	19.7	41.5	60.0	18.5	31.2	54.4	23.2	28.5	50.5	22.0
19	44.7	62.4	17.7	46.2	65.4	19.2	41.0	61.2	20.2	39.7	59.5	19.8	31.9	54.0	22.1	30.9	50.1	19.2
20	45.0	61.6	16.6	45.4	64.7	19.3	41.0	61.4	20.4	41.0	59.5	18.5	29.5	48.7	19.2	28.5	47.0	18.5
21	45.7	62.8	17.1	44.0	64.4	20.4	41.0	61.5	20.5	43.7	64.5	20.8	32.2	53.6	21.4	30.5	49.5	19.0
22	45.0	61.0	16.0	44.1	62.0	17.9	42.8	62.6	19.8	37.9	58.5	20.6	26.5	43.2	16.7			

DURATION OF SUNSHINE

1944

Days of Month	Jan.	Feb.	March	April	May	June	July	August	Sept.	October	Nov.	Dec.
	H. M.	H. M.	H. M.	H. M.	H. M.							
1	1 07	7 23	9 47	11 20	5 28	12 56	12 54	12 20	12 02	11 18	5 05	9 40
2	8 47	6 10	8 02	10 16	11 00	11 57	13 05	11 20	12 00	10 58	10 05	10 05
3	5 00	7 00	5 53	10 55	11 50	12 32	13 12	12 39	11 55	10 24	9 05	8 19
4	9 06	8 40	10 43	9 30	8 47	13 27	12 53	12 33	11 55	11 00	7 44	7 15
5	9 57	5 48	10 44	8 30	12 49	13 00	12 50	11 55	11 48	10 55	6 36	3 06
6	10 02	10 23	11 06	11 38	12 57	12 40	12 50	12 20	11 07	10 51	1 29	9 55
7	6 39	10 12	10 54	10 00	13 02	12 17	12 49	12 00	11 00	10 40	4 48	3 09
8	8 40	8 32	10 57	10 10	12 41	12 40	12 53	12 20	10 00	10 05	9 42	2 00
9	8 31	10 30	10 28	10 46	12 54	13 02	11 27	12 20	9 54	8 05	10 16	9 54
10	4 41	10 42	11 00	11 10	9 20	12 08	11 55	12 26	11 17	9 37	10 20	10 00
11	9 55	10 10	10 53	10 23	12 15	12 07	12 47	11 47	11 41	9 40	10 12	7 05
12	5 04	10 24	7 45	9 53	12 06	12 07	12 40	11 51	10 35	10 12	9 47	8 17
13	6 50	9 37	6 13	10 08	11 20	12 45	13 13	11 55	11 48	9 32	10 17	4 00
14	2 41	9 23	9 15	11 28	12 27	12 53	13 10	11 40	11 33	10 29	8 38	5 06
15	6 28	0 13	11 08	11 09	9 24	13 10	13 00	11 40	11 06	10 15	9 53	9 58
16	6 51	0 22	11 03	8 18	11 45	12 55	12 33	12 03	10 00	10 00	9 41	9 38
17	4 44	5 10	6 00	10 56	12 25	13 05	12 17	12 10	11 00	10 32	10 00	9 47
18	4 01	8 44	10 55	12 14	12 57	13 00	12 45	11 03	11 03	10 37	9 32	8 38
19	9 12	10 00	11 00	11 17	13 17	13 04	12 47	12 07	11 10	8 15	8 35	6 38
20	9 30	8 08	11 10	12 06	13 02	13 22	12 45	12 24	10 48	10 18	2 27	5 15
21	4 58	9 35	8 30	11 30	13 10	12 46	12 21	12 04	11 12	10 36	6 18	7 10
22	4 40	10 18	10 41	11 53	12 12	12 57	12 42	12 13	11 10	10 40	4 50	8 55
23	4 28	8 56	11 20	7 30	11 37	13 02	11 47	12 03	10 30	10 21	9 20	6 20
24	8 15	8 54	10 45	12 13	12 33	12 58	12 27	12 13	10 36	10 52	9 22	5 03
25	10 15	10 57	9 25	12 13	12 37	13 12	11 59	11 30	9 55	9 58	3 08	8 18
26	10 16	11 10	10 05	12 07	12 09	12 54	12 00	12 05	9 30	10 28	7 50	9 25
27	10 05	10 30	1 18	10 54	11 15	12 23	10 43	12 05	10 55	10 38	8 22	9 53
28	9 28	10 19	6 35	12 10	13 05	12 17	10 20	11 58	11 06	7 35	9 12	8 11
29	6 11	10 34	8 07	12 22	12 18	10 14	12 30	11 40	11 10	10 01	9 55	0 14
30	3 36	—	11 10	2 18	12 35	13 10	12 36	11 33	11 08	10 20	9 30	0 00
31	6 58	—	11 07	—	12 48	—	12 39	12 05	—	0 00	—	0 00
Mean	6 54	8 35	9 29	10 35	11 52	12 42	12 29	12 01	11 02	10 23	8 04	6 49
Mean Percentage	66.1	76.8	79.1	82.0	86.9	90.4	90.0	91.0	82.7	83.4	69.2	60.6

RAINFALL

(Millimetres)

1944

		14 h.	20 h.	8 h.	Total	Total for Month
January	14	Drops	0.8	—	0.8	—
"	18	Drops	0.2	—	0.2	—
"	20	—	0.2	—	0.2	—
"	22	Drops	—	—	—	—
"	29	—	0.1	—	0.1	—
"	30	0.4	2.0	—	2.4	3.7
February	3	—	Drops	—	—	0.0
March	3	—	Drops	—	—	—
"	21	—	Drops	—	—	—
"	29	—	—	0.1	0.1	0.1
April	30	Drops	—	Drops	—	0.0
May	1	Drops	1.6	—	1.6	—
"	4	0.3	12.5	—	12.8	—
"	10	Drops	—	—	—	14.4
June	10	—	—	Drops	—	0.0
October	30	—	Drops	Drops	—	—
"	31	Drops	—	—	—	0.0
November	6	0.3	0.1	—	0.4	—
"	7	—	0.3	—	0.3	—
"	19	—	—	Drops	—	—
"	23	—	Drops	0.5	0.5	—
"	25	—	1.1	—	1.1	2.3
December	3	—	0.4	—	0.4	—
"	4	—	0.2	Drops	0.2	—
"	5	Drops	Drops	—	—	—
"	12	—	—	0.6	0.6	—
"	13	0.6	Drops	—	0.6	—
"	23	—	0.3	—	0.3	—
"	29	—	—	0.1	0.1	—
"	30	0.3	Drops	27.0	27.3	—
"	31	7.2	7.7	—	14.9	44.4
TOTAL	..	9.1	27.5	28.3	—	64.9

EVAPORATION
(Millimetres)

DAY'S TOTAL from 8 h. to 8 h.—Piche Evaporimeter in Screen

1944

Days of Month	January	February	March	April	May	June	July	August	September	October	November	December
1	5.6	3.6	15.6	13.7	7.0	11.1	12.0	11.6	10.2	11.9	13.8	5.1
2	4.5	3.9	13.7	8.4	10.0	12.0	18.5	12.0	10.1	11.2	12.2	6.4
3	5.1	4.2	6.6	8.1	10.0	13.4	16.9	11.6	10.5	9.3	8.3	4.0
4	7.4	3.9	7.1	7.0	4.8	17.6	16.1	11.0	10.8	10.9	7.5	3.0
5	4.1	5.8	7.0	9.3	8.9	18.8	14.4	12.5	12.0	10.8	6.5	3.6
6	5.0	8.2	9.3	9.3	10.7	22.7	17.4	12.5	11.0	9.5	3.4	3.9
7	4.3	8.0	6.7	7.3	11.0	18.3	12.8	10.4	9.3	7.7	4.8	3.8
8	5.9	9.0	7.1	7.3	14.0	17.6	13.3	10.2	9.4	9.1	6.8	5.1
9	3.4	5.9	9.0	7.9	17.3	16.6	11.0	10.6	7.7	9.0	6.6	6.1
10	4.4	6.3	7.0	10.6	12.0	15.9	11.2	10.8	7.4	8.8	7.0	5.1
11	5.0	5.3	14.2	10.9	14.7	18.1	14.3	12.0	9.3	11.4	6.7	4.0
12	4.0	7.0	12.8	8.6	11.8	20.1	14.5	13.0	8.9	11.8	8.3	5.1
13	3.3	7.4	6.6	8.1	14.1	23.4	15.0	13.3	10.4	7.9	10.0	2.5
14	3.1	6.6	10.1	10.6	16.0	18.9	12.9	12.5	11.0	8.7	8.0	2.6
15	4.2	15.1	10.5	10.6	15.0	17.7	11.4	14.7	8.7	12.4	7.7	4.7
16	3.6	14.2	9.9	9.5	11.4	13.7	11.1	13.2	9.1	9.8	8.1	4.9
17	5.4	9.5	9.2	7.4	12.3	12.2	12.0	11.1	9.4	8.0	7.0	4.9
18	4.7	6.0	8.2	14.1	15.0	14.0	13.2	10.7	8.8	8.3	5.8	4.1
19	5.4	7.9	7.7	17.9	13.9	15.9	13.5	11.7	8.3	7.8	5.0	4.2
20	3.1	6.9	8.0	15.4	12.6	17.8	13.2	12.0	9.5	9.3	3.6	2.6
21	4.7	8.7	6.9	14.4	15.1	17.1	14.1	10.0	10.0	9.4	5.2	3.0
22	4.4	8.0	8.7	17.4	20.0	16.4	11.5	11.0	10.9	7.8	5.0	4.4
23	4.8	6.0	10.0	20.0	23.5	15.7	12.9	11.7	10.0	7.6	4.8	2.8
24	3.4	5.0	10.7	21.3	17.3	14.1	14.9	14.6	10.3	8.5	6.5	4.0
25	4.5	6.0	7.3	18.5	17.9	20.4	15.4	18.2	10.6	10.2	4.5	4.1
26	4.0	9.9	18.4	15.2	15.6	14.8	13.8	18.2	9.4	8.3	3.2	6.1
27	6.0	12.3	13.3	14.5	10.6	12.4	12.3	12.0	10.2	9.1	5.9	5.2
28	5.1	11.3	8.2	15.3	10.0	12.2	10.4	10.4	10.7	9.7	5.2	4.3
29	2.4	11.6	9.2	20.6	11.1	13.1	11.6	10.2	10.2	13.5	6.4	6.2
30	3.0	—	8.0	15.2	10.1	16.5	12.5	9.9	10.1	15.5	4.8	1.8
31	4.0	—	9.6	—	10.1	—	12.4	10.0	—	13.7	—	0.9
Mean	4.45	7.70	9.57	12.51	13.03	16.28	13.44	12.05	9.81	9.90	6.62	4.15

MISCELLANEOUS PHENOMENA

1944

January	5	⌚ at 18 ^h 20 ^m .	March	29	○○ a. & p.m.
	6	○○ p.m.		30	○○ p.m.
	7	☰ in the morning.			○○ a.m.
		○○ p.m.			○○ a.m.
	10	⌚ at 19 ^h 10 ^m .			○○ a.m.
	11	○○ a.m.			○○ a.m.
	12	○○ a. & p.m.			⌚ 13 ^h 50 ^m —20 ^h .
	13	○○ a.m.			○○ a.m.
	14	○○ p.m.			○○ a.m.
	15	○○ a. & p.m.			⌚ 13 ^h —21 ^h .
February	22	○○ a.m.	April	14	○○ a.m.
	23	○○ a.m.		15	⌚ & ☂ 15 ^h 55 ^m —23 ^h 10 ^m .
	24	○○ p.m.		16	S→ & ☂ 8 ^h 30 ^m —18 ^h .
	25	○○ p.m.		18	○○ p.m.
	26	○○ a.m.		19	○○ a.m.
		○○ p.m.		20	S→ 18 ^h 45 ^m —24 ^h .
	27	○○ a.m.		21	S→ with ☂ and strong.
		○○ p.m.		22	⌚ 4 ^h 15 ^m —24 ^h .
	29	Khamsin Conditions.		23	○○ at 16 ^h 30 ^m .
	30	⌚ & ☂ 11 ^h —18 ^h .		24	⌚ all day.
March	4	○○ a.m.	May	25	S→ 18 ^h —4 ^h & 19 ^h —22 ^h .
	5	○○ a.m.		26	○○ a.m.
	6	○○ a.m.		27	S→ 17 ^h —23 ^h .
	8	○○ a.m.		28	⌚ at 11 ^h .
	9	⌚ 14 ^h —18 ^h .		29	S→ 15 ^h —19 ^h 44 ^m & 23 ^h 01 ^m —24 ^h ,
	10	○○ a.m.			⌚ 19 ^h 45 ^m —23 ^h .
	12	○○ a. & p.m.			S→ 0 ^h —1 ^h 10 ^m .
	13	○○ a. & p.m.			○○ a.m.
	14	○○ a.m.			⌚ (sudden) 4 ^h —4 ^h 45 ^m .
	15	Khamsin Conditions.			S→ 13 ^h —13 ^h 35 ^m .
April	16	Khamsin Conditions.	June		○○ p.m.
	17	⌚ 13 ^h —14 ^h 30 ^m & 23 ^h —24 ^h .			Khamsin day.
	18	Khamsin Conditions.			S→ 13 ^h —16 ^h & 20 ^h —23 ^h with.
	19	⌚ & ☂ all day.			⌚ at intervals.
		Strong ☂ 14 ^h —19 ^h .			ξ at 14 ^h .
	23	○○ a. & p.m.			○○ p.m.
	24	Khamsin Conditions.			S→ with ☂ at intervals 0 ^h —13 ^h 15 ^m .
	25	○○ a. & p.m.			⌚ at 14 ^h 35 ^m .
	26	Khamsin Conditions.			S→ 16 ^h 45 ^m —22 ^h .
	27	Khamsin Conditions.			⌚ at 14 ^h 05 ^m .
May	28	Khamsin Cond tions.	July		Strong ☂ (sudden) at 14 ^h 33 ^m .
	29	Khamsin Conditions.			⌚ at 16 ^h 50 ^m NE.
	1	○○ a. & p.m.			S→ 18 ^h 50 ^m —24 ^h .
	2	⌚ 19 ^h 30 ^m —22 ^h .			S→ 7 ^h —21 ^h 30 ^m .
	3	(intermittent) 0 ^h —7 ^h 30 ^m .			S→ 9 ^h —18 ^h then
	5	○○ a.m.			⌚ till 22 ^h .
	6	⌚ 22 ^h —24 ^h .			○○ a.m.
	8	⌚ 0 ^h —8 ^h & 16 ^h —22 ^h .			S→ 10 ^h —21 ^h 30 ^m .
	9	○○ p.m.			⌚ at 12 ^h 50 ^m & 14 ^h 20 ^m .
	10	⌚ 22 ^h 30 ^m —24 ^h .			○○ a.m.
June	11	⌚ 3 ^h 20 ^m —7 ^h 30 ^m .	August		○○ a.m.
	12	⌚ & ☂ 12 ^h —24 ^h .			○○ a. & p.m.
	13	⌚ 0 ^h —3 ^h .			Khamsin day.
	14	⌚ 6 ^h 15 ^m —8 ^h .			S→ 19 ^h 30 ^m —22 ^h .
	15	○○ a.m.			○○ a.m.
	16	Khamsin Conditions.			Khamsin day.
	17	⌚ 0 ^h —5 ^h .			S→ & ☂ 16 ^h —18 ^h .
	18	○○ a. & p.m.			○○ a.m.
	19	⌚ 13 ^h —16 ^h 30 ^m .			○○ a. & p.m.
	20	⌚ 20 ^h —24 ^h .			S→ & ☂ 9 ^h 22 ^h 15 ^m .
July	21	⌚ 0 ^h —5 ^h & 14 ^h —19 ^h .	September		○○ a.m.
	22	○○ a.m.			○○ a.m.
	23	⌚ at Sunset.			S→ 12 ^h 18 ^h 30 ^m .
	24	⌚ at 19 ^h 20 ^m .			○○ a. & p.m.
	25	○○ a. & p.m.			S→ 16 ^h —18 ^h 45 ^m then
	26	Khamsin Conditions.			⌚ till 24 ^h .
	27	⌚ 13 ^h 45 ^m —16 ^h 15 ^m & 22 ^h 30 ^m —24 ^h .			○○ a. & p.m.
	28	○○ a.m.			Khamsin day.
		⌚ 0 ^h —1 ^h & 10 ^h 30 ^m —24 ^h .			S→ at intervals all day.
		⌚ at 0 ^h 06 ^m .			⌚ 18 ^h —18 ^h 50 ^m .
August		Strong ☂ 16 ^h 47 ^m —20 ^h 35 ^m .			○○ a.m.
		Khamsin Conditions.			S→ 12 ^h 23 ^h 30 ^m .
September		S→ (intermittent) 3 ^h 45 ^m —17 ^h .			○○ a.m.
		Khamsin Conditions.			S→ 18 ^h 40 ^m —23 ^h 10 ^m .
October		Khamsin Conditions.			○○ a.m.
		S→ 0 ^h —6 ^h & 18 ^h —24 ^h .			S→ 19 ^h 50 ^m —24 ^h .
November		S→ 0 ^h —2 ^h 30 ^m .			S→ 0 ^h —6 ^h & 18 ^h —24 ^h .
		○○ a. & p.m.			○○ a. & p.m.

MISCELLANEOUS PHENOMENA (Contd.)

1944

June	15	∞ p.m.	October	4	∞ a.m. S→12h—21h.
	16	O a.m.		5	∞ a.m. S→9h—21h
	17	∞ a.m.		6	S→10h—16h.
	18	∞ a.m.		8	∞ a.m.
	19	∞ a.m.		9	O p.m.
	20	∞ a.m.		10	∞ a.m. S→19h—22h 30m.
		O p.m.		11	∞ a.m.
	21	∞ a. & p.m. ξ at 19h.		12	∞ a. & p.m.
		Khamsin day.		14	∞ a.m.
	22	∞ a.m. S→20h 30m—23h 30m.		15	∞ a.m.
	24	∞ a.m.		16	S→16h 32—16h 55m.
	26	∞ p.m.		17	∞ p.m. O p.m.
	27	∞ p.m.			S→21h—24h.
	28	∞ p.m.		18	∞ a.m. O p.m.
	29	∞ p.m.		19	S→20h 30m—24h. S→0h—2h.
	30	∞ a. & p.m.		21	∞ a.m. ⊕ 8h 45m—11h 45m.
July	1	∞ a.m.		22	∞ a.m. S→21h—22h 30m.
	3	∞ a.m.		23	O p.m.
	5	∞ a.m.		24	∞ a.m. O p.m.
	6	∞ a. & p.m.		25	S→20h 30m—24h.
	10	∞ a.m.		26	S→0h—5h 30m & 20h—23h 30m.
	11	∞ a.m.		27	∞ a.m. S→all day with. ↘ at intervals.
	12	∞ a.m.		28	S→& ↘ at 5h.
	13	∞ a.m.		29	S→22h—24h.
	14	S→11h 10m—19h 10m.		30	∞ a.m. S→0h—4h 30m & 17h—24h.
	15	∞ a. & p.m.		31	S→0h—1h 30m. ↖ at 17h NNE.
	16	∞ a.m.			
	17	∞ a.m.			
	19	S→14h—17h 50m.			
	20	∞ a. & p.m.			
	21	∞ a. & p.m.			
	23	∞ a.m.			
	24	O p.m.			
	25	∞ p.m.			
	26	∞ a. & p.m.			
	27	S→13h 30m—19h 25m.			
	27	∞ p.m.			
	29	S→at p.m.			
	31	∞ a.m.			
		O p.m.			
August	2	∞ a. & p.m.	November	1	∞ p.m.
	3	∞ a.m.		6	↖ at 18h 45m E.
	4	∞ a.m.		7	O p.m.
	6	∞ p.m.		9	∞ a.m. O p.m.
		S→12h—19h.		10	∞ a.m.
	7	∞ a. & p.m.		11	∞ a.m.
	8	∞ a. & p.m.		13	∞ a.m.
	12	∞ p.m.		18	∞ a.m.
	13	∞ a. & p.m.		19	∞ a.m.
	14	∞ a. & p.m.		20	∞ a.m.
	15	∞ a.m.		24	↖ at 8h.
	18	∞ a.m.		25	∞ a.m.
	20	∞ a.m.		29	∞ a.m. O p.m.
	22	∞ p.m.		30	∞ a. & p.m.
	24	S→19h 30m—23h 30m.			
	25	∞ p.m.			
		↖ 17h 05m—21h 30m.			
	26	S→0h—5h 10m.			
	27	S→18h 42m—24h.			
	28	O p.m.			
	29	∞ a.m.			
September	4	O p.m.	December	1	∞ a. & p.m.
	5	∞ a.m.		2	∞ a.m.
	8	∞ a. & p.m.		3	S→ at 16h 20m.
	9	∞ a.m.		6	∞ p.m.
	10	∞ a.m.		7	∞ a.m.
	11	∞ a. & p.m.		8	∞ a. & p.m.
	12	∞ a.m.		9	∞ a.m.
	13	∞ p.m.		10	↖ till 7h 30m. O p.m.
	14	∞ a.m.		11	↖ cleared at 7h 45m. ⊕ 12h 20m—13h.
	15	∞ a. & p.m.		12	↖ till 8h. ∞ a.m.
	17	∞ a.m.		13	∞ a.m. ↖ at 7h 30m N.
	18	∞ a. & p.m.		14	∞ a. & p.m.
	19	∞ a. & p.m.		15	∞ a.m.
	26	∞ a. & p.m.		16	∞ a. & p.m.
	27	∞ a.m.		17	∞ a.m.
	28	∞ a.m.		18	∞ a.m.
		S→& ↘ 18h—24h		19	∞ a.m.
	29	S→& ↘ 0h—3h.		20	∞ a.m.
		S→5h—12h & 19h 23h 30m.		21	∞ a. & p.m.
October	1	S→all day.		22	∞ a. & p.m.
	2	∞ a.m.		23	∞ a.m.
		S→0h—2h with. ↘ at intervals.		25	O p.m.
	3	∞ a.m.		26	∞ a. & p.m.
				29	⊕ 19h 35m—20h 10m.
				30	∞ a.m.
				31	↖ at 5h.

CLIMATOLOGICAL FACTORS

TEMPERATURE (°C.)

1944

Months	Mean Temperature for 24 h.	Mean at			Non-periodic Diurnal Range			Hottest Day, Mean Temperature	Coldest Day, Mean Temperature	Range	Absolute Monthly Range					Mean Diurnal Variability
		8 h.	14 h.	20 h.	Mean Max.	Mean Min.	Range				Absolute Max.	Date	Absolute Min.	Date	Range	
December 1943	17.0	14.7	21.0	17.0	21.7	12.5	9.2	21.2	13.4	7.8	27.2	13	9.5	17	17.7	0.9
January 1944	12.4	9.2	16.4	13.0	17.7	7.6	10.1	17.7	8.7	9.0	23.3	1	3.2	20	20.1	1.2
February . . .	15.1	11.5	19.9	16.0	21.1	8.9	12.2	23.2	11.1	12.1	30.9	28	5.3	9	25.6	1.8
March	18.0	14.6	23.6	18.9	24.7	11.3	13.4	26.0	14.1	11.9	34.0	26	7.2	20	26.8	2.6
April	22.0	18.8	28.5	22.9	29.5	14.0	15.5	30.3	15.0	15.3	39.6	27	8.7	4	30.9	2.3
May	23.3	20.7	29.0	24.4	30.2	16.1	14.1	33.0	16.4	16.6	44.0	23	9.4	5	34.6	1.5
June	28.8	26.0	35.0	30.1	36.0	20.9	15.1	33.4	22.5	10.9	43.0	7	15.7	1	27.3	1.6
July	27.9	24.6	33.4	30.0	34.6	20.8	13.8	31.1	25.5	5.6	39.8	25	19.0	15	20.8	1.0
August	28.0	24.9	33.4	29.5	34.5	21.0	13.5	31.8	25.6	6.2	39.3	25	19.0	21	20.3	0.9
September . . .	25.9	23.3	31.3	27.1	32.0	19.7	12.3	28.1	22.6	5.5	35.3	10	16.4	21	18.9	0.5
October	24.5	21.8	29.7	24.9	30.5	18.4	12.1	28.2	21.4	6.8	35.7	30	16.1	23&24	19.6	1.1
November . . .	19.1	16.8	23.4	19.2	24.0	14.0	10.0	27.1	15.7	11.4	31.2	1	10.4	30	20.8	0.8
December . . .	15.1	12.5	19.2	15.6	20.0	10.3	9.7	18.1	12.0	6.1	23.6	9	6.9	28	16.7	1.0
Civil Year . . .	21.7	18.7	26.9	22.6	27.9	15.2	12.6	33.4	8.7	24.7	44.0	May	3.2	Jan.	40.8	1.4
Metereological Year	21.8	18.9	27.0	22.8	28.0	15.4	12.6	June 13th	Jan. 20th	—	—	3rd	—	20th.	—	1.4

Notes.—Mean diurnal variability = $\frac{(t_1-t_2)+(t_2-t_3)+\dots+(t_n-t_{n+1})}{n}$ without regard to the sign of (t_1-t_2) , etc.

Where t_1 is temperature on the 1st day.

t_2 " " " 2nd "

t_3 " " " 3rd "

t_n " " " last "

t_{n+1} " " " 1st " of following month

HUMIDITY, RAIN, CLOUD, SUNSHINE, EVAPORATION,**WIND, PRESSURE****1944**

Months	Vapour Press- sure m.b.	Relative Humidity				Rain		Cloudi- ness 0-10	Duration of Sunshine		Mean Evapo- ration mm.	Mean Wind Velocity kilomet- res per hour	Stand- ard Pres- sure Mean m.b. 900 +
		8 h.	14 h.	20 h.	Mean*	Amount mm.	Num. of Rainy Days		Total hours	Percen- tage of possible			
December 1943	12.5	77	47	65	67	9.8	4	4.3	215.0	67.6	158	14.6	105.6
January 1944	8.7	77	42	59	63	3.7	5	5.3	213.9	66.1	138	11.1	106.0
February	6.8	56	26	38	44	Drops	0	2.6	248.7	76.8	224	12.8	103.0
March	8.4	61	23	39	46	0.1	1	2.5	294.0	79.1	297	18.6	99.7
April	9.8	56	21	37	44	Drops	0	2.6	317.3	82.0	375	18.3	100.2
May	11.2	54	22	37	45	14.4	2	1.6	368.1	86.9	404	17.4	100.2
June	12.8	47	17	29	37	Drops	0	0.6	381.0	90.4	488	17.7	95.6
July	17.4	68	26	37	51	—	0	1.0	386.8	90.0	416	15.1	95.3
August	18.0	68	27	43	52	—	0	0.8	372.4	91.0	374	15.2	95.8
September	18.3	72	32	49	58	—	0	1.0	330.9	82.7	294	16.9	99.2
October	14.8	65	29	48	52	Drops	0	2.1	321.9	83.4	307	16.1	100.6
November	12.5	72	37	56	59	2.3	4	3.7	242.0	69.2	199	13.8	101.9
December	11.2	78	46	64	67	44.4	8	4.2	211.2	60.6	128	10.2	102.4
Civil Year	12.5	64	29	45	52	64.9	20	2.3	3688.2	79.8	3644	15.3	100.0
Meteorological Year . . .	12.6	64	29	45	52	30.3	16	2.3	3692.0	80.4	3674	15.6	100.3

*These are true means

Notes.—Minimum vapour pressure.

Maximum " "

Minimum relative humidity.

Maximum rainfall in one day.

Maximum evaporation in one day.

Minimum standard pressure.

Maximum " "

2.4 m.b. February 15th at 12h

25.6 m.b. August 29th at 8h.

4% May 23rd at 16h. and June 13th at 13h.

27.3 mm. fell on December 30th.

23.5 mm. May 23rd.

983.7 m.b. March 26th. at 24h.

1013.7 m.b. January 10th. at 10h.

PILOT BALLOON OBSERVATIONS

PILOT BALLOON
Wind Direction East of North (Unit 10 degrees)

DATE	G.M.T. of Starting	HEIGHT ABOVE S.																	
		112		500		1000		1500		2000		2500		3000					
		D	V	D	V	D	V	D	V	D	V	D	V	D	V				
1944		H.	M																
JANUARY																			
1	.	6	38	—	0	18	51	20	58	21	69	21	63	25	24	25	48	47	55
2	.	6	34	—	0	34	8	20	5	24	34	22	37	—	—	—	—	—	22
3	.	6	48	04	30	13	8	11	4	16	15	19	27	20	48	—	—	—	55
4	.	6	43	23	4	28	22	27	42	26	49	—	—	—	—	—	—	—	28
5	.	6	38	16	8	26	35	28	34	26	34	28	34	28	45	28	48	48	58
6	.	6	25	—	0	02	10	34	8	13	9	14	16	16	30	30	30	30	12
9	.	6	32	17	8	24	19	32	44	31	42	32	31	32	32	32	32	32	—
10	.	6	38	—	0	31	7	18	35	35	31	0	41	—	—	—	—	—	—
11	.	6	40	—	0	05	21	04	27	04	27	03	51	33	20	29	29	27	27
12	.	6	31	11	4	06	31	04	30	02	43	30	23	28	26	24	24	38	38
13	.	6	34	17	6	27	11	30	23	32	38	32	41	—	—	—	—	—	—
15	.	6	55	14	6	34	3	34	30	35	39	34	57	34	60	—	—	—	—
16	.	6	39	—	0	34	14	03	13	03	19	01	19	32	13	27	27	17	17
17	.	6	43	16	8	21	35	22	35	27	35	—	—	—	—	—	—	—	—
18	.	6	38	17	18	20	42	21	38	23	48	23	66	24	33	23	102	102	—
19	.	6	45	14	13	21	31	27	55	28	48	—	—	—	—	—	—	—	—
20	.	6	29	13	12	23	30	27	46	26	56	25	45	27	51	27	78	78	—
22	.	6	37	17	4	33	7	35	18	34	28	34	38	—	—	—	—	—	—
23	.	6	41	—	0	01	12	35	9	0	11	—	—	—	—	—	—	—	—
24	.	6	26	16	6	28	14	30	22	30	20	30	18	33	22	33	30	30	23
25	.	6	27	—	0	29	12	29	12	29	15	33	12	35	15	35	35	35	18
26	.	6	26	13	9	23	18	27	27	29	22	35	36	30	14	30	30	30	19
27	.	6	28	—	0	35	9	0	12	01	7	02	7	23	24	38	38	38	26
29	*	6	28	17	12	22	30	25	30	25	40	24	47	—	—	—	—	—	—
* 30	.	6	38	15	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—
31	.	6	37	13	12	28	15	32	29	32	36	31	34	—	—	—	—	—	—
FEBRUARY																			
1	.	6	48	13	12	28	21	29	16	35	32	34	47	—	—	—	—	—	—
2	.	6	43	—	0	30	18	32	18	0	19	—	—	—	—	—	—	—	—
3	.	6	35	—	0	0	10	34	16	34	22	32	25	—	—	—	—	—	—
5	.	6	37	—	0	—	0	24	7	28	8	30	6	23	10	23	23	17	17
6	.	6	47	12	12	20	27	22	24	26	42	29	26	36	—	—	—	—	—
7	.	6	31	13	15	18	21	21	15	25	46	26	76	26	60	26	60	60	51
8	.	6	20	14	12	26	18	26	35	24	43	27	51	29	36	36	36	36	54
9	.	6	37	16	17	20	26	26	41	25	42	27	51	29	36	36	36	36	54
10	.	6	27	10	12	15	10	20	20	21	18	22	38	23	32	32	32	32	51
13	.	6	40	13	12	20	48	24	47	26	58	—	—	—	—	—	—	—	—
14	.	6	34	—	0	01	17	0	19	31	42	31	37	—	—	—	—	—	—
15	.	6	30	04	22	11	14	11	20	19	28	30	30	28	29	29	29	29	41
16	.	6	30	12	7	17	54	19	87	19	76	20	53	19	48	48	48	48	96
17	.	6	42	22	18	24	31	27	30	—	—	—	—	—	—	—	—	—	—
19	.	6	30	15	4	30	4	33	18	30	10	25	15	32	10	22	22	22	22
20	.	6	48	08	18	07	26	03	26	03	42	29	29	32	18	19	19	19	19
21	.	6	37	17	3	19	25	25	27	56	26	22	27	32	26	32	32	32	30
22	.	6	34	17	5	25	24	27	56	26	84	—	—	—	—	—	—	—	—
23	.	6	30	—	0	33	13	32	18	31	26	29	34	—	—	—	—	—	—
24	.	6	27	—	0	35	13	35	24	0	28	31	25	47	32	51	51	51	39
26	.	6	33	—	0	14	14	19	21	49	22	33	18	38	21	30	30	30	21
27	.	6	41	14	15	19	49	22	50	22	34	25	53	27	66	27	66	66	68
28	.	6	40	—	0	18	30	22	0	19	0	22	01	11	31	25	31	31	24
29	.	6	38	04	8	04	26	0	19	0	22	0	11	31	25	31	31	31	24
MARCH																			
1	.	6	30	—	0	13	18	15	16	17	13	19	12	22	16	2	24	24	17
2	.	6	30	17	13	18	48	20	48	20	45	21	21	34	34	34	34	34	34
4	.	6	39	30	14	34	36	34	48	35	52	34	44	33	48	34	34	34	27
5	.	6	38	31	5	05	16	02	21	0	28	02	33	0	26	34	34	34	27
6	.	6	31	05	36	09	4	07	7	11	6	11	12	—	—	—	—	—	30
8	.	6	37	04	14	03	24	01	35	03	22	01	19	33	8	20	20	20	30
9	.	6	41	04	7	06	38	05	24	06	29	08	5	0	16	31	31	31	27
11	.	6	29	—	0	18	17	19	19	18	4	04	14	—	—	—	—	—	—
12	.	6	35	16	45	18	82	—	—	—	—	—	—	—	—	—	—	—	—
13	.	6	37	03	20	03	24	31	14	25	50	25	60	60	42	42	42	42	42
+ 14	.	6	39	—	0	31	7	29	26	25	15	25	25	42	42	42	42	42	42
+ 15	.	6	46	16	9	20	19	26	38	28	38	27	57	57	60	60	60	60	25
+ 16	.	6	25	25	30	28	43	27	65	26	51	27	57	57	60	60	60	60	25
18	.	6	37	—	0	04	18	01	19	34	35	33	33	30	31	36	36	36	30
19	.	6	33	34	9	0	18	03	42	02	15	15	45	45	33	27	27	27	27
20	.	6	47	0	22	03	19	03	24	02	15	15	45	45	33	27	27	27	27
21	.	6	28	0	9	04	18	03	24	0	38	35	45	45	33	27	27	27	27
22	.	6	32	30	8	08	18	09	36	14	19	14	14	14	26	26	26	26	25
23	.	6	25	28	4	34	18	32	42	31	28	28	28	28	25	25	25	25	25
25	.	6	26	17	3	18	6	32	42	31	28	28	28	28	25	25	25	25	25
26	.	6	33	12	10	32	17	27	25	28	30								

RESULTS AT HELWAN

Wind Velocity in Kilometres per hour

METRES

PILOT BALLOON

Wind Direction East of North (Unit 10 degrees)

DATE	G.M.T. of Starting	HEIGHT ABOVE SEA LEVEL													
		112		500		1000		1500		2000		2500		3000	
		D	V	D	V	D	V	D	V	D	V	D	V	D	V
1944	H. M.														
APRIL															
1	6 33	07	6	13	25	12	32	13	32	13	34	12	42	13	36
2	6 25	28	6	35	24	26	25	24	47	24	41	25	63	—	—
3	6 28	31	15	34	8	32	28	30	49	—	—	—	—	—	—
4	6 35	05	7	03	18	03	30	04	25	32	36	32	45	31	43
5	6 23	16	5	15	7	35	26	34	36	34	42	32	30	32	29
6	6 20	16	3	15	22	20	27	25	20	27	19	29	23	23	28
8	6 25	28	4	31	14	34	23	34	36	33	52	—	—	—	—
+ 9	6 28	13	3	32	13	—	—	—	—	—	—	—	—	—	—
10	6 27	04	7	08	11	03	36	34	23	0	48	01	48	0	68
11	6 25	31	7	09	11	32	9	0	5	10	9	15	6	14	10
12	6 22	28	25	33	33	29	33	—	—	—	—	—	—	—	—
*13	6 26	27	6	28	9	—	—	—	—	—	—	—	—	—	—
15	6 11	18	7	20	24	25	42	24	36	21	31	18	38	—	—
*16	6 20	30	10	28	30	—	—	—	—	—	—	—	—	—	—
18	6 28	06	21	06	38	06	29	05	36	01	36	0	26	35	23
19	6 37	07	40	07	30	05	37	—	—	—	—	—	—	—	—
20	6 19	03	50	05	17	07	46	04	44	—	—	—	—	—	—
22	6 25	31	10	08	24	11	20	13	12	16	13	17	18	18	19
23	7 39	—	0	09	22	10	36	12	17	14	20	14	12	—	—
24	6 43	32	19	06	20	06	28	05	21	35	11	29	6	23	7
25	6 32	29	3	05	26	08	7	22	6	27	22	25	33	24	38
26	6 20	—	0	07	23	12	23	16	10	17	32	17	33	21	31
27	6 16	15	3	28	13	20	38	19	51	20	34	21	40	16	27
29	6 29	07	14	09	15	07	15	34	11	34	23	30	16	27	17
30	6 26	—	0	17	44	21	43	22	57	23	70	24	52	—	—
MAY															
1	6 35	05	50	04	25	34	26	29	17	20	12	18	50	19	68
2	6 39	04	14	03	23	02	53	03	18	32	27	25	31	21	66
3	6 18	32	3	04	12	34	15	09	3	24	9	25	30	24	40
4	6 13	33	15	03	23	0	12	34	8	29	12	27	19	23	31
7	6 27	03	20	04	51	05	48	05	18	05	22	—	—	—	—
8	6 25	01	20	03	60	06	34	07	46	08	23	13	29	13	36
9	6 13	0	17	04	22	06	54	06	42	07	28	11	9	11	10
10	6 21	32	20	04	31	01	48	01	35	—	—	—	—	—	—
11	6 16	33	13	0	22	02	41	06	30	04	48	—	—	—	—
13	6 23	30	7	01	17	35	19	33	23	33	23	33	31	27	—
14	6 19	—	0	34	16	23	23	23	23	34	31	33	31	31	—
15	6 26	17	12	18	25	24	20	27	29	29	28	29	43	31	51
16	6 41	—	0	0	5	29	31	28	41	—	—	—	—	—	—
17	6 19	27	4	02	7	0	30	33	19	32	40	30	48	—	—
18	6 38	—	0	11	8	30	4	30	22	33	30	45	30	43	—
20	6 23	—	0	01	12	02	33	34	10	34	15	35	18	34	43
21	6 45	02	7	06	10	05	29	26	40	03	20	03	42	—	—
22	7 05	—	0	05	15	03	12	02	18	03	20	05	28	03	21
23	6 23	17	4	21	18	27	36	39	42	31	31	32	41	33	49
24	6 32	35	9	02	25	0	48	34	46	—	—	—	—	—	—
25	6 19	05	11	03	12	0	30	34	35	—	—	—	—	—	—
27	6 37	29	7	34	17	35	15	—	—	—	—	—	—	—	—
28	6 23	30	7	0	3	34	14	32	18	29	21	29	25	27	49
29	6 25	02	12	35	26	03	14	28	24	28	24	28	30	27	24
30	6 17	34	5	01	22	0	26	32	31	31	52	30	21	25	30
31	6 21	02	12	03	13	01	23	—	—	—	—	—	—	—	—
JUNE															
1	6 34	02	19	04	20	04	35	05	23	01	7	18	11	20	29
3	6 17	35	7	0	18	03	26	0	14	27	8	23	6	29	14
4	6 23	0	7	03	12	0	31	34	31	35	25	34	24	33	—
5	6 45	04	14	04	28	03	42	01	75	02	72	—	—	—	—
6	6 19	06	16	07	19	04	32	05	42	05	33	05	45	11	25
7	6 15	—	0	13	24	20	8	19	13	24	13	25	23	25	36
8	6 22	—	0	24	23	30	21	27	29	24	26	23	42	25	35
10	6 46	—	0	12	2	30	12	29	24	29	33	30	45	29	43
11	6 39	27	5	09	10	10	19	35	13	31	25	25	25	39	39
+ 12	6 40	—	0	05	16	—	—	—	—	—	—	—	—	—	—
13	6 30	—	0	09	12	05	39	03	52	0	37	32	33	—	—
14	6 37	12	12	18	28	21	40	19	75	—	—	—	—	—	—
15	6 34	16	5	24	30	26	46	26	42	24	38	31	39	32	38
17	6 42	31	5	33	12	31	18	31	26	31	35	31	62	30	45
18	6 14	29	6	35	10	35	15	32	30	31	33	31	60	31	60
19	6 26	31	4	0	7	34	17	30	34	34	47	32	54	31	60
20	6 17	28	3	04	22	03	43	35	50	33	51	34	57	35	36
21	6 22	—	0	13	12	20	18	9	22	22	61	26	26	27	47
22	6 20	—	0	04	14	30	26	31	40	32	61	—	—	29	—
24	6 19	32	5	01	18	04	12	03	16	27	35	27	29	29	29
25	6 29	01	16	05	26	03	31	02	45	—	—	—	—	—	—
26	6 45	0	14	03	20	05	28	04	19	01	30	7	18	—	—
27	6 27	35	8	01	18	01	30	0	40	34	33	01	24	01	26
28	6 23	34	10	01	25	03	27	01	51	02	33	—	—	—	—
+ 29	6 17	31	18	13	—	—	—	—	—	—	—	—	—	—	—

† Entered Sc. clouds at 904 m. Dir. 340° Vel. 24 kms.

* Entered St. clouds at 684 m. Dir. 290° Vel. 17 kms.

° Entered Cb. clouds at 628 m.

† Burst at 980 m. Dir. 20° Vel. 7 kms.

‡ Entered Cu. clouds at 656 m. Dir. 350° Vel. 9 kms.

RESULTS AT HELWAN (contd.)

Wind Velocity in Kilometres per hour

MEMBRES

PILOT BALLOON**Wind Direction East of North (Unit 10 degrees)**

DATE	G.M.T. of Starting	HEIGHT ABOVE SEA LEVEL											
		112		500		1000		1500		2000		2500	
		D	V	D	V	D	V	D	V	D	V	D	V
1944	H.	M.											
	JULY												
1	.	.	6	19	31	9	31	7	—	—	—	—	—
2	.	.	6	19	30	6	07	25	03	19	34	16	0
3	.	.	6	30	28	8	04	20	35	18	33	13	33
4	.	.	6	19	0	14	03	19	01	44	35	29	—
5	.	.	6	16	31	19	0	28	0	42	35	33	—
6	.	.	6	25	30	16	01	21	03	28	02	46	03
8	.	.	6	15	31	5	0	16	0	34	0	30	30
9	.	.	6	22	30	17	33	15	34	16	33	31	34
†10	.	.	6	19	30	7	32	11	—	—	—	—	—
†11	.	.	6	26	30	8	05	10	06	15	04	22	03
†12	.	.	6	23	31	18	01	14	28	10	27	20	30
†13	.	.	6	20	33	7	0	7	32	24	32	19	27
†14	.	.	6	24	34	10	0	14	34	55	—	—	—
†15	.	.	6	29	27	8	34	24	35	29	—	—	—
16	.	.	6	22	30	12	35	17	0	23	33	29	30
17	.	.	6	17	29	8	33	17	—	—	—	—	—
18	.	.	6	17	30	4	02	15	34	7	32	38	31
19	.	.	6	16	34	7	02	12	34	30	30	47	30
20	.	.	6	25	30	5	34	10	35	29	0	23	33
22	.	.	6	26	29	8	33	19	33	23	29	32	30
23	.	.	6	10	—	0	35	11	0	21	01	25	03
24	.	.	6	16	31	6	3	13	03	10	04	12	10
25	.	.	6	28	—	0	32	17	35	25	01	25	01
26	.	.	6	12	31	14	35	16	0	32	34	24	28
27	.	.	6	17	30	8	33	15	31	27	—	—	—
29	.	.	6	30	33	15	0	18	32	15	29	9	33
30	.	.	6	23	31	12	0	13	0	4	23	6	26
31	.	.	6	13	35	7	0	7	03	17	35	23	33
AUGUST	*	.	6	20	31	3	32	15	—	—	—	—	—
	2	.	6	19	33	3	04	12	0	29	34	28	35
	3	.	6	28	30	8	34	4	33	34	33	19	12
	5	.	6	15	31	12	35	18	30	19	29	17	32
	6	.	6	34	32	8	31	32	32	49	32	34	—
	7	.	6	39	32	13	33	21	34	24	—	—	—
	8	.	6	39	30	12	34	29	35	31	34	42	—
	9	.	6	24	01	15	03	8	0	22	0	33	23
	10	.	6	20	0	24	02	15	01	30	02	30	01
	12	.	6	28	35	15	04	24	04	41	05	31	04
	13	.	6	22	32	5	01	10	0	36	02	24	04
	14	.	6	24	33	14	35	18	01	33	0	33	0
	15	.	6	34	01	6	03	25	01	47	0	59	72
	16	.	6	21	—	0	26	14	28	17	26	24	29
	17	.	6	21	31	7	0	9	29	12	31	25	29
	19	.	6	12	—	0	03	3	33	6	32	15	32
	20	.	6	44	29	12	03	9	32	22	33	14	24
	21	.	6	46	32	10	03	11	32	25	—	—	—
	22	.	6	36	—	0	32	6	32	6	33	8	25
	23	.	6	38	—	0	17	3	32	9	30	17	32
	24	.	6	30	—	0	21	23	22	16	23	19	—
	27	.	6	46	—	0	21	17	19	19	21	16	22
	28	.	6	32	16	3	22	15	22	8	26	21	26
	29	.	6	33	—	0	35	13	28	17	27	20	27
	30	.	6	41	—	0	35	8	34	16	24	4	25
	31	.	6	27	34	7	03	14	01	23	33	28	—
SEPTEMBER	2	.	6	40	35	7	03	18	02	14	35	22	0
	3	.	6	51	04	22	03	26	03	28	03	43	05
	4	.	6	30	04	12	03	17	02	43	03	24	18
	5	.	6	53	34	5	02	18	03	36	04	52	03
	6	.	6	28	32	11	33	19	0	33	—	—	—
	9	.	6	27	31	5	03	6	27	11	35	12	0
	10	.	6	41	—	0	05	5	21	18	23	21	12
	*11	.	7	56	31	8	0	11	—	—	—	—	—
	12	.	6	50	—	0	03	8	33	15	33	10	33
	13	.	6	30	04	6	01	13	34	31	33	31	5
	14	.	6	33	04	7	03	11	35	21	33	32	31
	16	.	6	40	31	18	01	14	03	37	—	—	—
	21	.	6	34	0	23	03	12	02	42	04	19	02
	23	.	6	49	01	25	04	54	05	31	12	10	04
	24	.	6	42	01	12	03	34	06	29	06	13	19
	25	.	6	32	01	18	06	26	06	31	29	13	23
	26	.	6	33	01	12	03	30	04	17	24	19	22
	27	.	6	46	0	7	03	20	03	17	30	6	24
	28	.	7	03	35	5	06	54	03	29	03	17	4
	30	.	6	45	04	25	05	23	03	48	02	48	—
OCTOBER	1	.	6	41	04	42	05	56	04	24	05	37	04
	2	.	6	28	29	7	05	22	19	3	5	34	24
	3	.	6	23	32	11	02	20	—	—	—	—	—

- Entered Cu. clouds at 688 m Dir. 320° Vel. 9 kms.
 Entered Cu. clouds at 660 m. Dir. 340° Vel. 7 kms.

† International days.
 : Entered Cu. clouds at 712 m. Dir. 330° Vel. 18 kms.

RESULTS AT HELWAN (contd.)

Wind Velocity in Kilometres per hour

METRES

3500		4000		4500		5000		5500		6000		7000		8000		9000		10000		11000		12000	
D	V	D	V	D	V	D	V	D	V	D	V	D	V	D	V	D	V	D	V	D	V	D	V
33	33	32	22	26	19	26	13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
27	18	23	30	27	12	29	12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
27	11	28	14	26	15	25	17	22	26	19	36	35	36	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
02	11	01	17	0	16	0	13	03	13	—	—	—	—	—	—	—	—	—	—	—	—	—	
31	6	31	7	35	10	32	15	24	25	28	20	26	29	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
29	26	29	27	31	20	31	23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
0	22	01	18	01	15	35	18	33	12	29	18	27	24	—	26	19	—	—	—	—	—	—	—
32	13	33	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
0	12	01	7	17	5	08	7	01	10	32	8	34	12	—	—	—	—	—	—	—	—	—	—
21	8	24	6	17	7	28	5	04	2	11	4	14	18	—	17	54	20	23	21	24	23	33	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25	14	24	33	24	29	25	42	25	48	—	—	—	—	—	—	—	—	—	—	—	—	—	—
35	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
0	26	35	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
27	45	25	36	32	21	30	15	0	10	34	16	30	10	28	27	27	54	27	46	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25	27	23	42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
24	49	24	55	23	43	22	45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
32	6	25	17	23	25	24	18	24	26	27	24	—	—	—	—	—	—	—	—	—	—	—	—
19	13	22	19	20	20	21	23	21	13	22	18	20	37	23	35	—	—	—	—	—	—	—	—
15	18	17	17	16	35	16	35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
27	11	19	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20	35	19	56	21	26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
21	12	22	36	22	35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
0	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
22	84	22	75	22	54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
22	5	21	0	25	22	10	34	5	30	10	28	14	26	33	—	—	—	—	—	—	—	—	—
23	12	21	25	22	24	23	19	21	12	22	11	—	—	—	—	—	—	—	—	—	—	—	—
35	38	34	32	26	20	24	35	25	43	25	47	24	75	—	—	—	—	—	—	—	—	—	—

Entered Cu. clouds at 952 m. Dir. 340° Vel. 15 kms.

Disappeared in Sun's disc at 898 m. Dir. 250° Vel. 7 kms.

Entered Cu. clouds at 656 m. Dir. 20° Vel. 16 kms.

PILOT BALLOON

Wind Direction East of North (Unit 10 degrees)

DATE	G.M.T. of Starting	HEIGHT ABOVE SEA LEVEL															
		112		500		1000		1500		2000		2500		8000			
		D	V	D	V	D	V	D	V	D	V	D	V	D	V		
1944	H. M.																
OCTOBER																	
4	6	43	02	25	03	24	03	48	03	38	03	27	30	4	26	28
5	6	47	02	18	03	19	—	—	—	—	—	—	—	—	—	—
7	6	53	0	20	02	5	02	24	02	37	—	—	—	—	—	—
8	6	53	04	20	03	22	05	31	03	36	03	19	14	22	14	22
9	6	34	—	0	06	22	0	7	09	5	19	14	22	14	22	14
10	6	28	—	0	05	22	05	13	19	7	17	10	28	33	16	31
11	6	30	08	16	04	36	03	37	35	31	32	17	31	15	30	34
12	6	27	—	0	04	4	33	13	35	25	33	0	28	33	16	31
14	6	27	—	0	35	13	34	19	35	23	33	28	—	—	—	—
15	6	30	—	0	03	8	01	39	01	54	01	49	—	—	—	—
16	6	34	13	6	18	19	16	14	18	7	31	11	31	30	30	34
17	6	27	30	8	0	10	0	19	27	7	28	17	—	—	—	—
18	6	22	34	4	06	20	02	22	01	28	03	7	0	6	21	6
19	6	23	08	11	07	20	07	26	03	22	35	6	27	12	27	25
21	6	29	17	4	20	22	25	16	24	24	24	46	23	52	—	—
22	6	24	—	0	02	11	0	19	28	31	27	43	—	—	—	—
23	6	32	06	10	06	8	06	22	03	20	—	—	—	—	—	—
24	6	24	07	20	05	25	02	19	04	7	33	7	31	18	31	45
25	6	49	—	0	07	19	02	37	01	50	0	42	33	21	32	18
26	8	11	32	20	35	24	35	6	35	20	35	44	0	63	—	—
28	6	45	—	0	15	28	18	28	16	21	34	15	36	15	37	37
29	6	51	—	0	06	9	17	16	19	33	20	39	19	57	21	52
30	6	28	30	10	07	6	10	34	06	14	08	7	12	14	10	14
31	6	27	—	0	13	21	16	22	16	21	16	30	—	—	—	—
NOVEMBER	v	1	46	04	65	04	66	07	26	09	16	13	16	—	—	—	—
2	7	20	05	40	05	63	07	35	07	43	18	5	29	16	8	
3	7	41	0	18	03	18	04	53	05	64	02	42	04	33	—	—
4	7	00	34	10	03	13	03	54	03	42	03	54	03	36	—	—
5	6	57	12	12	24	20	28	21	32	20	31	21	31	25	31	35
6	6	55	—	0	22	13	26	13	—	—	—	—	—	—	—	—
7	6	48	—	0	25	11	30	28	31	43	—	—	—	—	—	—
8	7	01	17	10	22	13	28	32	27	32	—	—	—	—	—	—
9	7	04	17	12	18	22	27	28	27	22	25	30	12	29	23	23
10	7	21	02	6	05	23	03	41	04	35	05	20	07	2	08	16
11	6	56	—	0	34	19	0	22	0	18	23	14	13	11	01	10
12	6	45	—	0	0	0	11	0	17	0	20	20	20	20	24	40
13	7	29	04	14	03	20	05	36	07	2	22	27	22	20	22	28
14	6	40	35	22	01	47	04	34	05	45	35	21	35	5	24	19
15	6	47	0	17	03	38	05	36	04	41	32	30	—	—	—	—
16	6	49	01	16	03	44	04	43	04	43	03	49	—	—	—	—
17	7	34	0	36	03	38	02	40	06	30	07	27	04	36	—	—
18	6	27	—	0	35	17	34	25	34	24	35	22	—	—	—	—
19	6	45	12	5	30	11	32	34	—	—	—	—	—	—	—	—
20	6	13	16	5	24	9	34	25	33	30	—	—	—	—	—	—
21	6	35	—	0	35	20	0	19	—	—	—	—	—	—	—	—
22	6	38	04	5	04	13	01	30	35	10	35	10	28	.8	28	18
23	6	45	13	10	25	17	25	23	28	32	29	30	29	28	28	21
24	7	35	12	8	22	19	26	49	28	57	26	48	—	—	—	—
25	6	52	17	15	21	51	22	43	23	52	25	46	—	—	—	—
26	7	36	18	10	15	11	31	12	28	17	29	23	31	26	33	16
27	6	42	08	4	04	21	04	24	05	21	03	25	35	14	34	27
28	7	13	31	12	05	15	04	45	—	—	—	—	—	—	—	—
29	6	56	32	8	03	31	05	33	04	39	04	33	—	—	—	—
30	6	39	—	0	04	19	03	17	04	23	03	25	33	23	30	29
DECEMBER		2	44	—	0	05	25	04	26	02	28	02	24	35	14	34	16
3	6	30	11	8	20	13	24	12	29	22	27	22	26	24	24	38
4	7	01	18	18	20	25	29	37	27	45	28	39	27	45	29	39
5	6	39	17	19	19	31	28	54	28	45	28	42	26	58	—	—
6	6	37	12	5	21	7	33	13	31	12	29	10	02	17	34	24
7	6	37	—	0	07	27	08	13	15	9	18	9	25	12	22	27
9	6	37	07	10	06	42	05	39	03	8	0	17	0	10	01	16
10	6	33	05	17	07	38	04	31	04	30	05	25	6	18	7	24
11	7	33	—	0	12	9	09	6	12	4	17	—	—	—	—	—
*12	7	20	—	0	29	22	—	—	—	—	—	—	—	—	—	—
13	6	56	16	18	25	12	29	36	—	—	—	—	—	—	—	—
*14	6	39	13	5	—	—	—	—	—	—	—	—	—	—	—	—
17	6	48	—	0	35	37	0	32	—	—	—	—	—	—	—	—
18	6	48	—	0	0	45	0	39	02	33	01	36	34	44	34	37
19	6	47	—	0	01	23	01	23	04	19	08	22	31	26	30	35
20	6	43	—	0	33	15	33	14	35	11	30	21	—	—	—	—
+21	6	56	—	0	—	—	—	—	—	—	—	—	—	—	—	—
23	7	17	—	0	30	6	29	14	30	20	—	—	—	—	—	—
24	6	55	14	4	28	9	26	19	25	20	27	11	29	13	—	—
25	6	58	14	12	23	17	28	31	26	32	27	39	28	58	—	29
26	6	35	15	8	19	17	27	30	28	32	27	36	—	—	—	42
27	6	46	16	17	18	54	20	49	22	48	—	—	—	—	—	—
28																

SULTS AT HELWAN (contd.)

| Wind Velocity in Kilometres per hour

— METRES —

UPPER WIND SUMMARY

FREQUENCY OF OBSERVATIONS

(Height above M.S.L. 112 m.)

1944

January

Surface	Speed Limits k. p. h.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Less than 6K.P.H.	Total all cases
500 m.	6-25	—	—	—	6	6	—	—	—	—	—
	26-50	—	1	—	—	—	—	—	—	—	—
	51-75	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—
	Total ...	—	1	—	6	6	—	—	—	13	26
Mean Velocity ...		30	—	10	10	—	—	—	—	—	12
1000 m.	6-25	5	1	—	1	—	2	5	2	—	—
	26-50	—	1	—	—	1	4	1	—	—	—
	51-75	—	—	—	—	1	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—
	Total ...	5	2	—	1	2	6	6	2	1	25
Mean Velocity ...		11	26	—	8	46	27	18	7	—	20
1500 m.	6-25	5	1	—	—	—	—	1	2	—	—
	26-50	1	2	—	—	—	2	5	2	—	—
	51-75	—	—	—	—	1	—	1	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—
	Total ...	6	3	—	—	1	2	7	4	2	25
Mean Velocity ...		16	23	—	—	58	36	35	30	—	29
2000 m.	6-25	2	1	—	1	1	—	2	1	—	—
	26-50	4	1	—	—	—	2	5	3	—	—
	51-75	—	—	—	—	—	1	1	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—
	Total ...	6	2	—	1	1	3	8	4	—	25
Mean Velocity ...		26	23	—	9	15	50	37	34	—	33
2500 m.	6-25	2	—	—	1	—	—	—	3	—	—
	26-50	3	—	—	—	1	2	2	2	—	—
	51-75	1	1	—	—	—	2	—	1	—	—
	>75	—	—	—	—	—	—	—	—	—	—
	Total ...	6	1	—	1	1	4	2	6	—	21
Mean Velocity ...		33	51	—	16	27	53	40	31	—	37
3000 m.	6-25	1	—	—	—	1	1	1	4	—	—
	26-50	—	—	—	—	1	2	2	—	—	—
	51-75	1	—	—	—	—	—	1	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—
	Total ...	2	—	—	—	2	3	4	4	—	15
Mean Velocity ...		38	—	—	32	32	36	17	—	—	30
3500 m.	6-25	1	—	—	—	—	—	1	3	—	—
	26-50	—	—	—	—	—	2	3	—	—	—
	51-75	—	—	—	—	—	1	1	—	—	—
	>75	—	—	—	—	—	1	1	—	—	—
	Total ...	1	—	—	—	—	4	6	3	—	14
Mean Velocity ...		18	—	—	—	—	56	47	15	—	40
4000 m.	6-25	—	—	—	—	—	—	1	1	1	—
	26-50	—	—	—	—	—	—	1	1	2	—
	51-75	—	—	—	—	—	—	1	1	—	—
	>75	—	—	—	—	—	—	1	—	—	—
	Total ...	—	—	—	—	—	4	3	3	—	10
Mean Velocity ...		—	—	—	—	—	50	42	25	—	40
4500 m.	6-25	—	—	—	—	—	—	1	1	1	—
	26-50	—	—	—	—	—	—	1	2	—	—
	51-75	—	—	—	—	—	—	1	—	—	—
	>75	—	—	—	—	—	—	1	1	—	—
	Total ...	—	—	—	—	2	—	1	5	1	7
Mean Velocity ...		—	—	—	—	—	16	50	21	—	41

February

UPPER WIND SUMMARY

FREQUENCY OF OBSERVATIONS

(Height above M.S.L. 112 m.)

1944

March

at 8 h.

April

at 8 h.

Speed Limits k. p. h.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Less than 6 K.P.H.	Total all cases	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Less than 6 K.P.H.	Total all cases		
Surface	6-25	3	3	—	1	3	—	—	—	3	—	—	3	2	—	1	—	3	5	—		
	26-50	—	1	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—		
	51-75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Total ..	3	4	—	1	4	1	—	—	3	9	25	—	4	3	—	1	—	3	5	9 25	
Mean Velocity ...	18	19	—	10	21	40	—	12	—	18	—	—	21	20	—	7	—	12	12	16		
500 m.	6-25	2	6	1	1	4	—	1	3	—	—	—	2	3	6	3	1	—	2	2	—	
	26-50	1	1	—	1	1	1	—	—	—	—	—	2	2	1	1	—	1	1	—	—	
	51-75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	>75	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Total ...	3	7	1	2	6	1	1	3	1	25	—	2	5	7	3	2	—	3	3	— 25	
Mean Velocity ...	24	22	18	26	32	50	6	15	—	25	—	—	16	24	19	18	34	—	17	20	21	
1000 m.	6-25	3	2	1	1	1	1	2	3	—	—	—	1	—	3	1	—	1	1	—	—	
	26-50	2	1	1	—	2	—	2	1	—	—	—	1	5	2	1	2	1	1	1	—	—
	51-75	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total ...	5	3	2	1	3	2	4	4	—	24	—	2	5	5	2	2	1	2	2	—	21
Mean Velocity ...	28	30	22	16	34	36	25	24	—	27	—	—	24	32	25	28	32	43	29	18	— 28	
1500 m.	6-25	1	1	1	1	1	1	2	1	—	—	—	2	2	—	2	1	1	1	1	—	—
	26-50	3	1	—	—	2	1	4	1	—	—	—	2	2	—	1	—	1	1	1	—	—
	51-75	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total ...	5	2	1	1	3	2	6	2	1	23	—	4	4	—	3	2	3	1	1	1	19
Mean Velocity ...	84	26	6	19	31	30	33	19	—	29	—	—	26	32	—	20	30	37	20	49	— 30	
2000 m.	6-25	1	1	1	1	1	—	5	—	—	—	—	2	—	1	1	1	—	2	—	—	—
	26-50	3	—	—	—	1	1	1	1	—	—	—	3	—	1	2	1	—	1	—	—	—
	51-75	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total ...	4	1	1	1	2	1	7	2	1	20	—	5	—	1	2	3	2	2	2	—	17
Mean Velocity ...	85	14	12	14	28	42	30	40	—	30	—	—	82	—	9	27	26	58	20	44	— 32	
2500 m.	6-25	1	—	—	—	1	1	1	2	1	—	—	2	—	—	2	1	—	2	1	—	—
	26-50	1	—	—	—	—	2	3	3	—	—	—	2	—	1	1	1	—	1	2	—	—
	51-75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total ...	2	—	—	1	1	3	5	4	—	16	—	2	—	—	3	2	2	4	3	—	16
Mean Velocity ...	21	—	—	—	20	8	32	27	32	—	27	—	37	—	—	20	26	46	31	30	— 31	
3000 m.	6-25	—	—	—	—	1	1	—	2	—	—	—	1	—	—	1	1	2	—	2	—	—
	26-50	1	—	—	—	—	1	1	4	3	—	—	1	—	—	1	1	—	1	2	—	—
	51-75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total ...	1	—	—	—	1	2	4	5	—	13	—	2	—	—	2	1	3	2	2	—	12
Mean Velocity ...	27	—	—	—	—	24	33	39	28	—	32	—	42	—	—	23	19	25	18	36	— 28	
3500 m.	6-25	—	—	—	—	—	1	1	—	—	—	—	2	—	—	2	2	1	—	1	—	—
	26-50	—	—	—	—	—	—	5	—	1	—	—	2	—	1	—	1	1	1	—	1	—
	51-75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total ...	—	—	—	—	—	1	1	5	1	—	8	—	2	—	1	2	3	2	2	—	12
Mean Velocity ...	—	—	—	—	—	18	22	37	54	—	35	—	29	—	—	37	16	18	28	56	— 29	
4000 m.	6-25	—	—	—	—	—	—	1	1	—	—	—	1	—	—	1	—	1	2	1	—	—
	26-50	—	—	—	—	—	—	3	1	—	—	—	1	—	—	1	—	1	2	2	—	—
	51-75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total ...	—	—	—	—	—	1	4	1	—	—	6	—	1	—	1	—	1	4	3	—	11
Mean Velocity ...	—	—	—	—	—	18	32	34	—	30	—	30	—	28	—	11	19	25	35	— 27		

UPPER WIND SUMMARY

FREQUENCY OF OBSERVATIONS

(Height above M.S.L. 112 m.)

1944

May

at 8 h.

June

at 8 h.

Speed Limits k. p. h.	May								June								Less than 6 K.P.H.	Total all cases			
	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.					
Surface	6-25	6	3	—	—	1	—	1	5	—	—	—	—	—	—	1	1	—			
	26-50	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	51-75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	Total ...	6	4	—	—	1	—	1	5	9	26	7	2	—	1	—	1	13	25		
	Mean Velocity ...	13	24	—	—	12	—	7	12	—	15	12	15	—	12	—	6	18	12		
500 m.	6-25	8	9	1	—	1	1	—	—	—	—	6	6	3	2	—	1	—	2		
	26-50	1	1	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—		
	51-75	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Total ...	9	12	1	—	1	1	—	—	2	26	6	8	3	2	1	2	—	1	25	
	Mean Velocity ...	18	25	8	—	25	18	—	—	—	21	16	20	14	18	28	26	—	12	18	
1000 m.	6-25	6	2	—	—	—	—	1	—	1	—	3	1	1	1	—	—	3	—		
	26-50	8	3	—	—	—	—	—	2	—	—	2	9	—	—	1	1	1	1		
	51-75	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Total ...	15	6	—	—	—	—	1	2	1	1	5	10	1	1	1	1	4	—	24	
	Mean Velocity ...	29	32	—	—	—	20	34	23	—	29	20	32	19	20	8	40	46	19	26	
1500 m.	6-25	3	2	—	—	—	—	—	2	5	—	2	3	—	—	2	—	1	—		
	26-50	3	3	1	—	—	—	—	3	1	—	4	1	—	—	1	2	4	—		
	51-75	—	—	—	—	—	—	—	—	—	—	2	1	—	—	—	—	—	—		
	>75	—	—	—	—	—	—	—	—	—	—	8	5	—	—	3	—	4	—		
	Total ...	6	5	1	—	—	—	—	5	6	1	24	—	—	—	3	—	4	—	23	
	Mean Velocity ...	25	30	46	—	—	—	31	23	—	28	40	30	—	—	32	—	32	32	84	
2000 m.	6-25	1	3	1	—	1	1	1	3	1	—	3	—	—	—	2	1	1	1		
	26-50	1	1	1	—	—	—	—	2	3	—	5	1	—	—	2	1	2	2		
	51-75	—	—	—	—	—	—	—	—	1	—	1	—	—	—	—	—	—	—		
	>75	—	—	—	—	—	—	—	—	—	—	9	1	—	—	4	2	5	—		
	Total ...	2	4	2	—	1	1	1	5	5	—	20	9	1	—	4	2	5	—	21	
	Mean Velocity ...	23	28	26	—	12	9	24	35	—	26	32	33	—	—	21	20	41	—	31	
2500 m.	6-25	1	—	1	—	—	—	—	2	1	—	3	—	—	—	1	1	1	—		
	26-50	—	2	—	1	1	—	—	4	4	—	1	1	—	—	2	1	3	—		
	51-75	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	2	—		
	>75	—	—	—	—	—	—	—	—	—	—	5	1	—	—	1	2	3	—		
	Total ...	1	2	1	1	1	—	—	6	5	—	17	5	1	—	1	2	3	5	—	17
	Mean Velocity ...	18	35	9	29	50	—	30	36	—	32	30	45	—	—	11	24	26	47	33	
3000 m.	6-25	—	1	1	—	—	—	—	1	—	—	—	—	—	—	2	—	—	—		
	26-50	—	1	—	—	1	—	2	2	2	—	—	—	—	—	1	—	4	3	—	
	51-75	—	—	—	—	—	1	—	1	—	—	—	—	—	—	—	—	1	—		
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Total ...	1	1	1	1	1	—	3	3	3	—	—	—	—	—	1	—	7	4	—	
	Mean Velocity ...	43	21	10	36	68	46	34	48	—	40	26	—	25	—	29	—	35	42	35	
3500 m.	6-25	—	—	—	—	1	—	—	1	—	—	—	—	—	—	1	—	1	—		
	26-50	—	—	—	—	—	—	2	2	1	—	—	—	—	—	1	—	1	1		
	51-75	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—		
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Total ...	—	—	—	—	1	—	4	2	2	—	—	—	—	—	1	—	3	3	—	
	Mean Velocity ...	42	—	—	18	—	66	—	45	—	43	—	—	—	—	35	40	77	26	46	

UPPER WIND SUMMARY**FREQUENCY OF OBSERVATIONS**

(Height above M.S.L. 112 m.)

1944

July

at 8 h.

August

at 8 h.

Speed Limits k. p. h.		N	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Less than 6K.P.H.	Total cases	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Less than 6K.P.H.	Total cases
Surface	6—25	4	—	—	—	—	—	4	15	—	—	5	—	—	—	—	—	—	—	1	8
	26—50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	51—75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total ...	4	—	—	—	—	—	4	15	5	28	—	5	—	—	—	—	—	—	1	8
	Mean velocity ...	10	—	—	—	—	—	8	12	—	11	—	13	—	—	—	—	—	12	10	12
500 m.	6—25	15	3	1	—	—	—	—	8	—	—	—	7	7	—	—	—	—	3	1	3
	26—50	1	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—
	51—75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	8	—	28	—	8	7	—	—	—	—	3	1	4
	Total ...	16	3	1	—	—	—	—	8	—	28	—	15	15	—	—	—	—	18	14	18
	Mean velocity ...	15	16	25	—	—	—	—	14	—	15	—	15	15	—	—	—	—	18	14	18
1000 m.	6—25	6	4	—	—	—	—	—	1	3	—	—	4	—	—	—	—	—	1	2	3
	26—50	7	1	—	—	—	—	—	1	1	—	—	6	1	—	—	—	—	2	—	2
	51—75	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total ...	14	5	—	—	—	—	—	1	4	1	25	10	1	—	—	—	1	2	3	8
	Mean velocity ...	29	15	—	—	—	—	—	10	22	—	25	29	41	—	—	—	—	19	12	15
1500 m.	6—25	6	2	—	—	—	—	—	1	2	2	—	2	—	—	—	—	—	2	4	6
	26—50	4	—	—	—	—	—	—	1	1	4	—	4	1	—	—	—	—	—	—	2
	51—75	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total ...	10	2	—	—	—	—	—	1	3	6	—	22	7	1	—	—	—	2	4	8
	Mean velocity ...	27	17	—	—	—	—	—	6	20	27	—	24	34	31	—	—	—	18	20	20
2000 m.	6—25	2	2	—	—	—	—	—	—	2	5	—	—	1	1	—	—	—	2	3	+
	26—50	1	1	—	—	—	—	—	—	1	5	—	—	2	1	—	—	—	3	1	—
	51—75	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total ...	3	4	—	—	—	—	—	3	10	—	20	4	2	—	—	—	2	6	5	—
	Mean velocity	24	27	—	—	—	—	—	22	28	—	26	38	29	—	—	—	18	25	22	—
2500 m.	6—25	1	1	—	—	—	—	—	—	1	1	—	—	3	—	—	—	—	1	1	3
	26—50	3	1	—	—	—	—	—	2	3	—	—	1	—	—	—	—	—	1	3	1
	51—75	2	—	—	—	—	—	—	1	—	—	—	1	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total ...	6	2	—	—	—	—	—	3	5	1	17	5	—	—	—	—	2	4	4	—
	Mean velocity ...	36	20	—	—	—	—	—	28	32	—	31	32	—	—	—	—	25	29	25	—
3000 m.	6—25	3	1	—	—	—	—	—	2	2	—	—	2	—	—	—	—	—	1	1	5
	26—50	1	—	—	—	—	—	—	1	1	—	—	1	—	—	—	—	2	1	—	—
	51—75	1	—	—	—	—	—	—	1	—	—	—	1	—	—	—	—	—	1	—	—
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total ...	5	1	—	—	—	—	—	3	4	—	13	3	—	—	—	—	3	3	5	—
	Mean velocity ...	31	11	—	—	—	—	—	28	30	—	28	22	—	—	—	—	31	38	20	—
3500 m.	6—25	2	—	—	—	—	—	—	2	2	—	—	1	—	—	—	—	1	1	1	—
	26—50	—	—	—	—	—	—	—	1	1	—	—	1	—	—	—	—	2	2	—	—
	51—75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total ...	2	—	—	—	—	—	—	3	3	—	8	2	—	—	—	—	3	3	1	—
	Mean velocity ...	16	—	—	—	—	—	—	18	17	—	18	16	—	12	—	—	38	29	21	—
4000 m.	6—25	2	—	—	—	—	—	—	1	3	—	—	2	—	—	—	—	1	1	1	—
	26—50	—	—	—	—	—	—	—	1	1	—	—	3	—	—	—	—	2	1	—	—
	51—75	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Total ...	2	—	—	—	—	—	—	1	2	3	—	—	2	—	—	—	5	1	1	—
	Mean velocity ...	18	—	—	—	—	—	—	30	20	14	—	19	14	—	—	—	38	36	21	—

UPPER WIND SUMMARY**FREQUENCY OF OBSERVATIONS**

(Height above M.S.L. 112 M.)

1944

September

at 8 h.

Surface	Speed Limits k.p.h.	at 8 h.								Less than 6K.P.H.	Total all cases
		N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.		
	6-25	7	5	—	—	—	—	—	3	—	—
	26-50	—	—	—	—	—	—	—	—	—	—
	51-75	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—
Total ...		7	5	—	—	—	—	—	3	5	20
Mean Velocity ...	15	14	—	—	—	—	—	12	—	14	—
	6-25	4	8	—	—	—	—	—	1	—	—
500 m.	26-50	—	4	—	—	—	—	—	—	—	—
	51-75	—	2	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—
Total ...		4	14	—	—	—	—	—	1	1	20
Mean Velocity ...	14	24	—	—	—	—	—	19	—	22	—
	6-25	2	2	—	—	—	—	—	1	1	1
1000 m.	26-50	4	8	—	—	—	—	—	—	—	—
	51-75	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—
Total ...		6	10	—	—	—	—	—	1	1	19
Mean Velocity ...	81	80	—	—	—	18	11	15	—	28	—
	6-25	2	4	—	—	—	—	2	1	2	—
1500 m.	26-50	1	2	—	—	—	—	—	—	2	—
	51-75	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—
Total ...		3	6	—	—	1	—	2	1	4	—
Mean Velocity ...	27	28	—	—	10	—	20	13	20	—	23
	6-25	4	3	—	—	—	—	2	1	2	—
2000 m.	26-50	—	1	—	—	—	—	—	—	3	—
	51-75	—	—	—	—	—	—	—	—	1	—
	>75	—	—	—	—	—	—	—	—	—	—
Total ...		4	4	—	—	1	—	3	1	2	16
Mean Velocity ...	18	24	—	—	8	26	12	18	—	20	—
	6-25	3	—	—	—	—	—	2	1	—	—
2500 m.	26-50	1	—	—	—	—	—	4	—	—	—
	51-75	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—
Total ...		4	—	—	—	—	—	4	2	1	13
Mean Velocity ...	14	—	—	—	36	18	16	—	22	—	31
	6-25	1	1	—	—	1	1	1	—	—	—
3000 m.	26-50	—	—	—	—	1	2	—	—	1	—
	51-75	—	—	—	—	—	—	1	—	1	—
	>75	—	—	—	—	—	—	—	—	—	—
Total ...		1	1	—	—	2	4	1	1	2	12
Mean Velocity ...	21	7	—	—	21	40	12	19	—	26	—
	6-25	—	—	—	2	1	2	1	—	—	—
3500 m.	26-50	—	—	—	—	1	—	—	—	2	—
	51-75	—	—	—	—	—	—	—	—	1	—
	>75	—	—	—	—	—	—	1	—	—	—
Total ...		—	—	—	2	2	3	1	1	2	11
Mean Velocity ...	—	—	—	14	24	36	11	6	—	22	—
	6-25	—	—	—	2	2	1	—	—	—	—
4000 m.	26-50	—	—	—	—	2	—	—	—	1	—
	51-75	—	—	—	—	—	—	1	—	1	—
	>75	—	—	—	—	—	—	—	—	—	—
Total ...		—	—	—	3	5	1	—	1	2	10
Mean Velocity ...	—	—	—	—	88	86	17	—	—	88	—

October

at 8 h.

Surface	Speed Limits k.p.h.	at 8 h.								Less than 6K.P.H.	Total all cases
		N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.		
	6-25	3	2	—	3	1	—	—	—	1	4
	26-50	—	1	—	—	—	—	—	—	—	—
	51-75	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—
Total ...		3	3	3	1	—	—	—	—	1	12
Mean Velocity ...	21	24	16	6	—	—	7	12	—	16	—
	6-25	5	11	3	1	2	—	—	—	—	—
500 m.	26-50	—	1	—	—	—	—	—	—	—	—
	51-75	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—
Total ...		5	13	3	2	2	—	—	—	2	27
Mean Velocity ...	16	28	15	24	20	—	—	—	—	—	20
	6-25	8	3	—	—	3	—	1	1	—	—
1000 m.	26-50	2	3	2	—	1	—	—	—	—	—
	51-75	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—
Total ...		10	6	2	—	4	—	1	1	1	25
Mean Velocity ...	21	29	30	—	20	—	—	16	18	—	28
	6-25	3	4	—	—	4	—	1	1	—	—
1500 m.	26-50	4	3	—	—	1	—	—	—	—	—
	51-75	1	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—
Total ...		8	7	—	—	5	—	2	1	2	17
Mean Velocity ...	27	25	—	—	18	24	19	—	—	26	—
	6-25	2	2	—	—	1	—	2	1	3	—
2000 m.	26-50	4	1	—	—	3	—	1	1	1	—
	51-75	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—
Total ...		6	4	1	—	5	1	2	4	—	23
Mean Velocity ...	32	27	7	—	25	46	30	16	—	26	—
	6-25	2	—	—	1	—	1	—	1	4	—
2500 m.	26-50	—	—	—	—	1	—	—	—	1	—
	51-75	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—
Total ...		3	—	—	2	1	2	1	5	1	15
Mean Velocity ...	31	—	—	25	57	38	12	20	—	26	—
	6-25	—	—	1	—	—	—	2	2	3	—
3000 m.	26-50	—	—	1	—	—	—	—	1	1	—
	51-75	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—
Total ...		1	—	1	—	3	2	4	—	12	—
Mean Velocity ...	27	—	14	37	—	24	22	21	—	23	—
	6-25	—	—	1	—	—	—	2	2	1	—
3500 m.	26-50	—	—	1	—	—	—	—	1	1	—
	51-75	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—
Total ...		1	—	1	—	1	3	2	2	—	10
Mean Velocity ...	38	—	22	—	52	20	25	18	—	26	—
	6-25	—	—	1	—	—	—	2	2	1	—
4000 m.	26-50	—	—	1	—	—	—	—	1	1	—
	51-75	—	—	—	—	—	—	—	—	—	—
	>75	—	—	—	—	—	—	—	—	—	—
Total ...		1	—	1	—	1	2	2	1	—	8
Mean Velocity ...	32	15	—	—	26	29	24	18	—	24	—

UPPER WIND SUMMARY

FREQUENCY OF OBSERVATIONS

(Height above M.S.L. 112 m.)

1944

November

at 8 h.

December

at 8 h.

Speed Limits k. p. h.	November								December								December							
	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Less than 6 K.P.H.		Total all cases	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Less than 6 K.P.H.		Total all cases		
Surface	6-25	6	1	—	3	4	—	—	2	—	—	—	1	2	3	5	—	—	—	—	—	—		
	26-50	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	51-75	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Total ...	7	3	—	3	4	—	—	2	11	30	—	1	2	3	5	—	—	—	—	13	24		
	Mean velocity ...	18	40	—	10	12	—	—	10	—	18	—	—	17	9	11	18	—	—	—	—	—	14	
500 m.	6-25	4	8	—	1	1	5	2	1	—	—	—	—	1	1	—	1	3	3	3	2	—		
	26-50	1	4	—	—	—	—	—	—	—	—	—	—	2	1	2	—	1	—	—	—	—	—	
	51-75	—	2	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Total ...	5	14	—	1	1	6	2	1	—	30	—	3	2	2	1	5	3	3	2	—	21		
	Mean velocity ...	23	30	—	11	22	21	14	11	—	24	—	35	34	32	9	28	14	14	10	—	23		
1000 m.	6-25	5	2	—	—	—	—	—	3	1	—	—	—	1	—	2	—	1	4	2	—	—		
	26-50	2	7	2	—	—	—	1	3	2	—	—	—	2	3	—	1	—	4	—	—	—		
	51-75	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—		
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Total ...	7	11	2	—	—	—	1	6	3	—	30	—	3	3	2	—	1	1	9	2	—		
	Mean velocity ...	25	38	30	—	—	43	28	25	—	31	—	31	32	10	—	49	12	29	14	—	27		
1500 m.	6-25	4	2	1	—	—	—	—	2	1	—	—	—	1	2	—	1	—	2	—	2	—		
	26-50	—	7	1	—	—	—	—	2	2	—	—	—	2	1	—	—	1	5	—	—	—		
	51-75	—	1	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Total ...	4	10	2	—	—	1	5	3	1	26	—	3	3	—	1	—	1	7	2	—	18		
	Mean velocity ...	18	38	30	—	—	52	32	31	—	33	—	24	19	—	9	—	48	33	16	—	26		
2000 m.	6-25	4	3	—	1	—	1	1	1	1	—	—	—	2	1	1	—	2	—	3	1	—		
	26-50	1	2	1	—	—	1	4	1	—	—	—	—	1	—	—	—	—	5	—	—	—		
	51-75	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Total ...	5	6	1	1	—	2	5	2	1	23	—	3	1	1	—	2	—	8	1	—	16		
	Mean velocity ...	23	34	27	16	—	20	35	26	—	29	—	26	25	22	—	8	—	30	21	—	25		
2500 m.	6-25	1	—	—	1	—	1	2	2	—	—	—	—	4	—	—	—	1	—	3	—	—		
	26-50	—	3	—	—	—	—	1	1	—	—	—	—	1	—	—	—	—	1	—	—	—		
	51-75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	—	—	—		
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Total ...	1	3	—	1	—	1	3	3	4	16	—	5	—	—	1	—	7	1	—	—	14		
	Mean velocity ...	14	35	—	11	—	20	16	25	—	23	—	18	—	—	9	—	38	26	—	28			
3000 m.	6-25	1	—	1	—	1	1	3	1	—	—	—	—	3	—	—	—	1	—	2	—	—		
	26-50	—	1	—	—	—	2	—	2	—	—	—	—	1	—	—	—	2	2	1	—	—		
	51-75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—		
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	3	1	—		
	Total ...	2	—	1	—	1	3	3	—	—	13	—	4	—	—	—	—	3	3	1	—	11		
	Mean velocity ...	18	—	16	—	8	29	21	27	—	22	—	23	—	—	—	—	24	54	35	—	33		
3500 m.	6-25	—	—	—	—	1	—	2	1	—	—	—	—	—	—	—	—	1	2	1	—	—		
	26-50	—	—	—	1	—	1	2	3	—	—	—	—	—	1	—	—	2	2	1	—	—		
	51-75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—		
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	3	3	—		
	Total ...	—	—	—	—	1	1	4	4	—	11	—	—	—	—	—	—	2	3	3	—	8		
	Mean velocity ...	—	—	—	—	80	11	87	80	81	—	29	—	—	—	—	—	26	29	29	—	28		
4000 m.	6-25	—	—	—	—	—	—	2	2	1	—	—	—	—	—	—	—	1	2	1	—	—		
	26-50	—	—	—	—	—	—	—	1	—	—	—	—	—	1	—	—	1	—	1	—	—		
	51-75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—		
	>75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	4	2	—		
	Total ...	—	—	—	—	—	2	2	3	—	7	—	—	—	—	—	—	17	89	26	—	82		
	Mean velocity ...	—	—	—	—	—	44	80	59	—	47	—	—	—	—	—	—	—	—	—	—	—		

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